Application No.: 101761,865

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Confirmation No.:3149

Appl. No.	10/761,865
Applicant	Koneda et al.
Filed	January 21, 2004
T.C./A.U.	3748
Examiner	Chang, Ching
Docket No.	81044248
Customer No.	33066

SUPPLEMENTAL DECLARATION UNDER 37 CFR 1.131

Mail Stop AF
T.C./A.U. 3748
Commissioner for
Patents P.O. Box 1450
Alexandria, VA 22313-1450

We, James Ervin, Thomas Megli and Philip Koneda, state that:

1. We are joint inventors of the above-identified patent application;

2. We made an invention claimed in the above-identified patent application in the United States prior to February 4, 2003.

3. In support thereof, we submit the following evidence:

A. A Document (see attached) created by the above-

identified James Ervin entitled "DISCLOSURE OF VALVE ACTUATOR USING A HYDRAULIC DISPLACEMENT AMPLIFIER" by James D. Ervin, Thomas Megli and Philip Koneda, the date on said Document having been removed but such date being prior to February 4, 2003, said Document being attached as attached EXHIBIT A;

B. Said Document in EXHIBIT A shows on page 3 in Figure 3 a hydraulic lever similar to FIG. 3 of the above-identified patent application.

C. Said Document in EXHIBIT A shows on page 3 in Figure 3 a hydraulic lever similar to FIG. 3 of the above-identified patent application more particularly:

An electronic valve actuator, comprising:

an electromagnet;

an armature disposed adjacent to the electromagnet;

a fluid-containing chamber having:

a first piston providing a first wall portion of the chamber; and

a second piston providing a second wall portion of the chamber, the first wall portion having a greater surface area than the surface area of the second wall portion; and

wherein the first piston is coupled to the armature and the second piston is coupled to a valve.

D. On or about January 01, 2003, it was, as an ***initial first step*** in reducing the electronic valve actuator having a fluid-containing chamber having a first piston providing a first wall

portion of the chamber; and a second piston providing a second wall portion of the chamber, the first wall portion having a greater surface area than the surface area of the second wall portion to initially ***fabricate*** the valve shown in Figure 3 of Exhibit A with the two pistons forming portions of the walls of the chamber having equal surface areas (i.e., a 1:1 ratio device). More particularly, we chose to make a 1:1 ratio device as a matter of convenience because it allowed us to utilize our pre-existing hardware and supporting test fixtures. Although this prototype was realized at 1:1, ALL of our modeling and analysis documentation was focused on characterizing behavior on ratios greater than 1:1. To put it another way, it was our intention to fabricate an electronic valve actuator having a fluid-containing chamber having a first piston providing a first wall portion of the chamber; and a second piston providing a second wall portion of the chamber, the first wall portion having a greater surface area than the surface area of the second wall portion, as described and shown in Figure 3 of Exhibit A after the initial fabrication of the 1:1 ratio device. For our purposes, the real value of hardware is to validate the relationships being modeled and the 1:1 hardware was convenient for that purpose (confirm leakage 1 tolerance / viscous relationships, etc.). We then rely on the models to allow us to predict behavior at the ratio condition ***other than 1:1*** that is most appropriate for a given application, package space, etc.

E. The EXHIBITS accompany our previous filed

declaration dated July 19, 2006 provide documentation of our activity towards first building a 1: 1 ratio device as a first step in building the electronic valve actuator a fluid-containing chamber having a first piston providing a first wall portion of the chamber; and a second piston providing a second wall portion of the chamber, the first wall portion having ***a greater*** surface area than the surface area of the second wall portion.

F. Attached are clearer copies of Exhibits A, E and N filed with our previous filed declaration dated July 19, 2006.

G. Exhibit E clearly shows an actuator having a fluid-containing chamber having a first piston providing a first wall portion of the chamber; and a second piston providing a second wall portion of the chamber, the first wall portion having a greater surface area than the surface area of the second wall portion. As noted the date on the Exhibit E is April 25, 2003.

4. All statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true.

Application No.: 101761,865

5. We understand and have been advised that willful false statements and the like made herein are punishable by fine or imprisonment, or both (18 U.S.C. 1001) and may jeopardize the validity of the application or any patent issuing thereon.

Date: 1/18/~~06~~ 07 JE

James Ervin

Date: 1-18-2007

Thomas Megli

Date: 1-18-2007

Philip Koneda

Exhibit A

DISCLOSURE OF VALVE ACTUATOR USING A HYDRAULIC DISPLACEMENT AMPLIFIER

James D. Ervin, Thomas Megli, Philip Koneda

Introduction

One common approach to controlled valve actuation is to use two electromagnets to toggle an armature connected to a valve between an open or closed position where it is held, while a pair of springs is used to force the valve to move (oscillate) to the other state (Fig. 1). A common shortfall to such a design is that the magnets must generate force over a travel length equal to the valve stroke. At points of travel where the air gap is large, more current is required to achieve a given force resulting in a corresponding increase in power consumption. Conversely, the peak force that can be generated for a given current is reduced as the air gap increases, which effectively reduces the authority to control the valve motion.

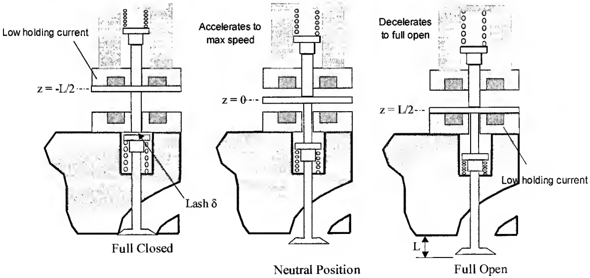


Figure 1: Conventional linear direct acting spring-mass oscillator

In contrast to the direct acting mass-oscillator approach, a new actuation architecture is proposed here which utilizes a hydraulic lever amplify the motion of a magnetic

armature to achieve a desired valve displacement, thus reducing the effective air gap. This disclosure describes the potential claims regarding this new architecture:

- Use of a hydraulic lever to minimize variation in air gap.
- Incorporation of passive hydraulic lash adjustment in the hydraulic lever mechanism.
- Incorporation of passive hydraulic damping in the hydraulic lever mechanism to potentially enable open loop control.
- Incorporation of a bypass valve to tune the damper response and allow for initialization of the system at startup.
- Ability to flexibly package the system to meet package requirements.

Prior art

As a departure from the direct acting systems, there is at least one example of a lever actuated system: LSP Innovative Automotive Systems of Munich, Germany has developed an actuator that uses a mechanical lever to amplify the travel of the armature and reduce the effective air gap. In contrast to the hydraulic system proposed here, the mechanical lever does not address issues of passive lash management or passive damping and must be designed within specific packaging rules. As a result of the reduced gap, the LSP lever system does improve the control authority through the stroke and improves the power consumption relative to conventional linear oscillators.

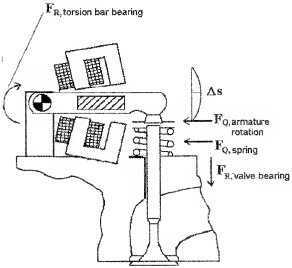


Figure 2: LSP lever acting spring-mass oscillator

Overview of the hydraulic amplifier lever oscillator

As the subject of this disclosure, a hydraulic lever is proposed as an alternative means of amplifying armature displacement. This has the effect of reducing the armature travel that is required to achieve a desired valve displacement and, in turn, reduces the effective air gap. In one proposed arrangement (Fig. 3), a first hydraulic piston is attached to an armature and biased with a first spring to be normally held in a downward position while a second piston is attached to a valve and biased with a second spring in a normally upward position.

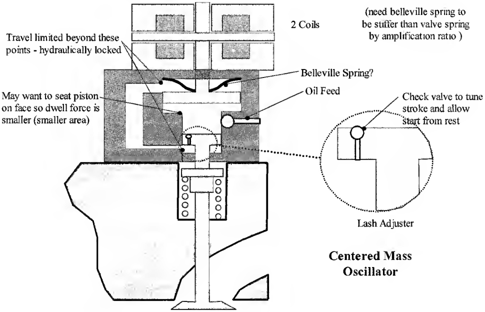


Figure 3: Hydraulic lever acting spring-mass oscillator

During a startup sequence, an upper coil is used to pull the armature upward. This creates higher pressure in the outer cavity than the central cavity to open a check valve mounted on the second piston, allow fluid transfer from the outer cavity to the central cavity, and compress the first spring.

Following this initialization process, the upper coil is de-energized, causing the first spring to move the armature and first piston downward. This increases the pressure in the central cavity between the piston faces, decreases the pressure in the outer cavity, and closes the check valve. The pressure difference across the second piston causes it to move downward and compress the second spring. At some time during this process, the lower coil is energized to continue compressing the second spring until the second piston strokes beyond the point where it can communicate oil with the outer cavity. At this

time, the second piston becomes hydraulically locked, travel stops, and the valve is held in the open position. Alternately, the travel limits could be regulated by designing the first piston to strike a shoulder in the central cavity or by driving the armature to land on the lower coil. are expected to be that is controlled by opposing coils.

Conversely, the lower coil can be de-energized and the upper coil can be energized to reverse the process and close the valve. It is expected that the pressure in the central cavity will be greater than that of the outer cavity during this event so that the check valve remains closed. This expectation requires that the force from the upper coil minus the force from the upper spring be less than the force of the second spring at all times and can be ensured by designing the preload of the second spring appropriately.

Lash Adjustment

The use of hydraulic lash adjusters for controlling tolerance stackup and thermal growth in valvetrains is well established. Each cycle following the seating of the valve, a controlled leak (orifice) from an oil lube reservoir is used to charge a hydraulic chamber to eliminate the clearance between the valve stem and the cam profile. In the case of EVA, this lash adjuster would be positioned between the valve stem and the actuation source. When acted upon by the cam, the oil becomes trapped in the cavity (can't leak out fast enough) and pushes on the valve with essentially no lash. The key to providing lash adjustment in this manner is designing the controlled leak to be slow enough to allow only a minimal change in length during the valve stroking process while being fast enough to account for the rate of length change due to thermal growth. It must also operate across a wide range of viscosity as the oil temperature.

Referencing the hydraulic lever implementation shown in Fig. 3, hydraulic lash control could be readily achieved by designing the appropriate clearance between the support body and the upper and lower pistons. In a typical sequence of operation, the lower piston would stroke upwards until the valve became seated. The upper piston would then continue stroking until its travel became limited by the seating of the armature or by a closing off of the channel that communicated oil to the underside of the lower piston (hydraulic locking). During this event, a differential pressure would develop across the upper piston, causing fluid to flow into the central cavity through the check valve and leak between the perimeter of the upper piston and the support body to resolve

the volume displaced. Having charged the cavity, the actuation source would be able to begin opening the valve with no lash.

During an opening event, downward motion of the upper piston would cause the lower piston to stroke downward, compressing the valve spring and creating a differential pressure across the lower piston. As a consequence of the differential pressure, fluid would flow out of the central cavity, resulting in a lower net stroke of the lower piston than for the upper piston. Such lost stroke is actually desired to account for valve growth due to thermal effects, where the loss of stroke (leakage) is ideally designed to be greater than the maximum thermal growth that can occur during a given cycle.

As a tradeoff during the valve closing event, the length lost during opening would result in the valve landing before the upper piston had finished stroking. With the natural coupling of position and velocity for the upper and lower pistons, it is advantageous to design the leakage to be as small as possible so that the travel of the two pistons is nearly the same. Thus if one is landed gracefully, both will, leading to simpler control.

Passive Damping

Taking advantage of the hydraulic architecture, it is also simple to incorporate passive damping into the actuator. As an example (Fig. 4), the travel of the pistons could be damped at the travel extremes by having the pistons close off a port, stopping the communication of oil to the rest of the circuit. At this point the system would be hydraulically locked though a conservation of volume. A check valve could be incorporated into the overtravel portion of the cavity to facilitate the release event. In a further refinement, the shape of the port could be tailored to provide a desired level of damping as a function of piston travel (ref. docket 201-1552 Variable Area Damper), as suggested in Fig. 4. Other implementations could include a ring extending from the piston and engaging mating cavity on the support (ram damper).

Passive, velocity-dependent damping offers significant advantages over active EVA control:

1. Reduces or eliminates the need for high speed, complex position and current feedback control of the EVA solenoids -- This complex control is presently required to achieve soft valve seating velocity for present actuator systems. The feedback control requires a high-speed (approximately 10-20kHz control loop

frequencies) computer, a position sensor for every engine valve/EMVA assembly. The control algorithms required for soft-landing are highly nonlinear, and require complex structures, such as adaptive or iterative learning control schemes to compensate for changes in actuator and valve characteristics over the life of the engine.

2. Improves system robustness and repeatability – The damper reacts to remove nearly all of the armature kinetic energy near the end of a valve transition; therefore, the damper achieves low contact velocities for a wide range of solenoid voltage control inputs. This robustness demonstrates that the damper will compensate for changes in operating characteristics due to manufacturing variability, engine wear, fluctuations in vehicle supply voltage, and changes in gas flow force disturbances.

As a drawback, such passive damping does dissipate energy and will increase power consumption relative to the undamped case. It should be noted however that active control methods to manage impact events, such as lash take-up and landing, increase power consumption as well. The magnitudes of these effects are still under investigation.

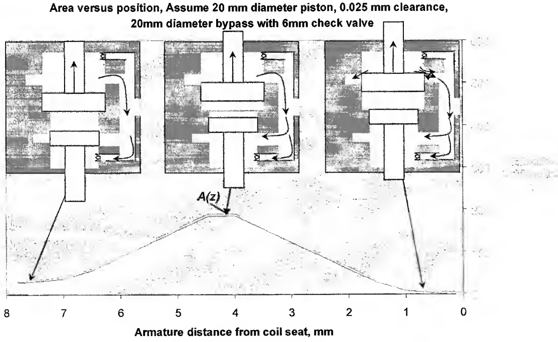


Figure 4: Example Implementation of Passive Damper

Vibration Cancellation

For mass-oscillating EVA systems, the typical valve acceleration and combined valve/armature mass is greater than for conventional cam designs leading to increased engine vibration. In an effort to minimize this effect, a design variant of the hydraulic lever is proposed where the upper port of the upper piston communicates with the upper port of the lower piston and the lower ports are similarly connected. This arrangement forces the motion of the two pistons in opposite directions, so that the inertial loads of each tend to cancel according resulting in a net force:

$$F_{net} = m_1 a_1 - m_2 a_2$$

where m_1 and m_2 are the masses of the upper and lower pistons and a_1 and a_2 are their respective accelerations.

Considering an example using armature and valve masses from conventional linear oscillator technology, a peak force of 630N would be produced by a 400g accel acting on the 0.090Kg upper mass (armature / stem / spring) and 0.073Kg lower mass (valve / keeper / retainers / spring). If the masses were driven in opposition by a hydraulic amplifier (1:1 amplification), the net force would instead be 66N, a tenfold reduction. If a larger amplification were considered, experience with the LSP lever system suggests that the armature mass would need to increase in keeping with the lever ratio while the associated acceleration would decrease.

Donut and hole opposed

Variable orifice damping

Find armature (upper) mass as a function of design parameters and valve (lower) mass:

$$\Delta t_{trans} = \pi\sqrt{\left(\frac{L\times SF\times TR}{2FPAM}\right)\left(\frac{M_v}{M_a}+\frac{1}{TR^2}\right)}$$

$$\frac{M_v}{M_a} = \frac{2\times FPAM\times(\Delta t_{trans})^2}{L\times SF\times\pi^2\times TR} - \frac{1}{TR^2} = \frac{2\times FPAM\times(\Delta t_{trans})^2\times TR\times sign(TR) - L\times SF\times\pi^2}{L\times SF\times\pi^2\times TR^2}$$

$$M_a = M_v\left(L\times SF\times\pi^2\times TR^2\right)\left(2\times FPAM\times(\Delta t_{trans})^2\times TR\times sign(TR) - L\times SF\times\pi^2\right)^{-1}$$

Significant mass ratio relationships:

$$\frac{M_a}{M_v} = \frac{\left(L\times SF\times\pi^2\times TR^2\right)}{\left(2\times FPAM\times(\Delta t_{trans})^2\times TR\times sign(TR)\right) - \left(L\times SF\times\pi^2\right)} = \frac{A}{B-C}$$

1) Lowest TR that can be applied for a given transition time (TR_{min}):
Armature mass goes to ∞ when TR satisfies the relationship:

$$B - C = 0 \Rightarrow TR\times sign(TR) = \frac{L\times SF\times\pi^2}{2\times FPAM\times(\Delta t_{trans})^2}$$

Armature mass also goes to ∞ when TR goes to ∞.

2) Find TR which produces the minimum armature mass (TR_{opt}):
Armature mass is minimum when:

$$\frac{\partial M_a}{\partial(TR)} = 0 = M_v\left(\frac{2\left(L\times SF\times\pi^2\times TR\right)}{\left(2\times FPAM\times(\Delta t_{trans})^2\times TR\times sign(TR) - L\times SF\times\pi^2\right)} - \frac{\left(2\times FPAM\times(\Delta t_{trans})^2\times sign(TR)\right)\left(L\times SF\times\pi^2\times TR^2\right)}{\left(2\times FPAM\times(\Delta t_{trans})^2\times TR\times sign(TR) - L\times SF\times\pi^2\right)^2}\right)$$

$$\frac{\partial M_a}{\partial(TR)} = 0 = M_v\left(\frac{\left(2\times L\times SF\times\pi^2\times TR\right)\left(\left(2\times FPAM\times(\Delta t_{trans})^2\times TR\times sign(TR) - L\times SF\times\pi^2\right) - \left(FPAM\times(\Delta t_{trans})^2\times sign(TR)\times TR\right)\right)}{\left(2\times FPAM\times(\Delta t_{trans})^2\times TR\times sign(TR) - L\times SF\times\pi^2\right)^2}\right)$$

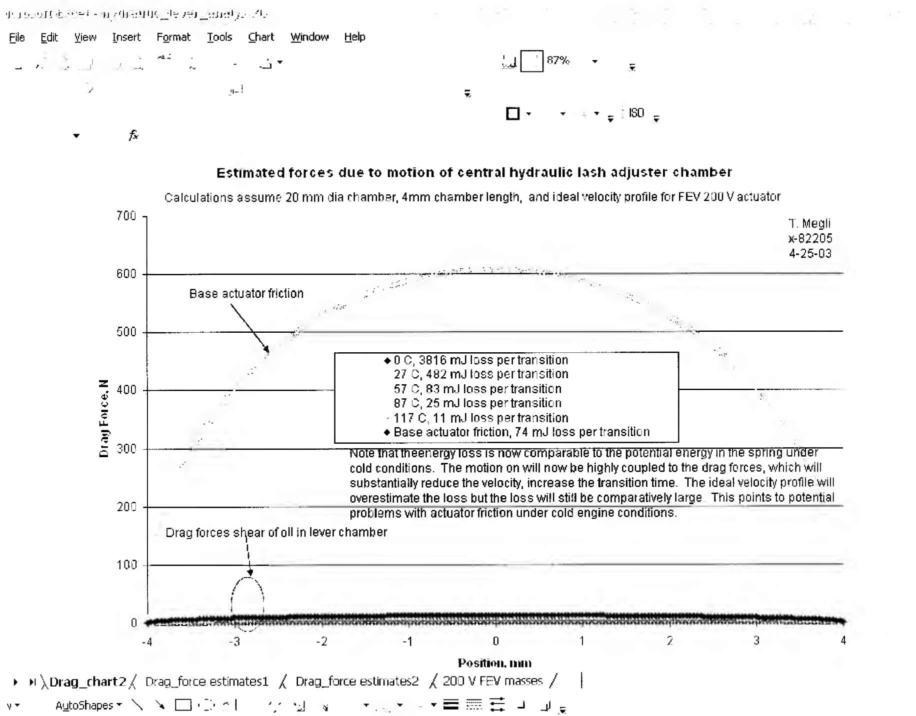
$$\frac{\partial M_a}{\partial(TR)} = 0 \Rightarrow TR\times sign(TR) = \frac{L\times SF\times\pi^2}{FPAM\times(\Delta t_{trans})^2}$$

Notice that TR_{opt} is exactly twice the value of TR_{min}.

3) As TR is reduced from the TR for min armto the lowest applicable TR value, the effective mass is growing like

4) As TR approaches ∞ from the TR for minimum armature mass, the armature mass increases because more actuator force is required to deliver the same force to the valve.

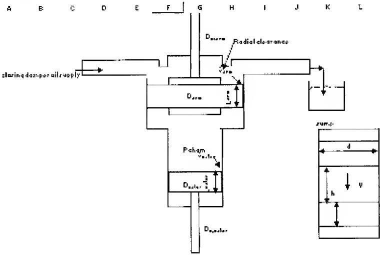
Exhibit E


File Edit View Insert Format Tools Chart Window Help
87%
Estimated forces due to motion of central hydraulic lash adjuster chamber
Calculations assume 20 mm dia chamber, 4mm chamber length, and ideal velocity profile for FEV 200 V actuator
T. Megli
x-82205
4-25-03
Base actuator friction
0 C, 3816 mJ loss per transition
27 C, 482 mJ loss per transition
57 C, 83 mJ loss per transition
87 C, 25 mJ loss per transition
117 C, 11 mJ loss per transition
Base actuator friction, 74 mJ loss per transition
Note that theenergy loss is now comparable to the potential energy in the spring under cold conditions. The motion on will now be highly coupled to the drag forces, which will substantially reduce the velocity, increase the transition time. The ideal velocity profile will overestimate the loss but the loss will still be comparatively large. This points to potential problems with actuator friction under cold engine conditions.
Drag forces shear of oil in lever chamber
Drag Force, N
700
600
500
400
300
200
100
0
-4
-3
-2
-1
0
1
2
3
4
Position, mm
Drag_chart2
Drag_force estimates1
Drag_force estimates2
200 V FEV masses
AutoShapes

Microsoft Excel - hydraulic_damper_analysis

File Edit View Insert Format Tools Data Window Help

F32



Problem Statement 1: The damper oil in the central chamber will move with the armature and valve and create a flow loss

Find: The flow loss during a transition due to oil drag on the chamber walls

Assumptions:

- Darm - Dvalve = d for simplicity (TR-1)
- Fully developed 1-D pipe flow, use Moody chart to determine Darcy friction factor
- Assume the shear stress computed by the Darcy friction factor is uniform over the chamber wall
- Assume ideal harmonic oscillator profile for velocity
- Assume smooth walled pipe

Solution Method:

1. Compute Reynolds number from average velocity, viscosity, and pipe diameter

$$= \frac{\rho}{\mu}$$

2. Calculate Darcy friction factor from (White, Fluid Mechanics, 1986, p. 313)

Re>2300

$$\frac{1}{\sqrt{f}} = -2.0\log\left(\frac{\epsilon/d}{3.7} + \frac{2.51}{Re\sqrt{f}}\right)$$

Re<2300

$$f = 64/Re$$

3. Compute Shear stress from Darcy friction factor

$$= \frac{\tau}{\rho}$$

4. Calculate drag force by integrating shear stress over chamber walls

$$F = \tau \pi d L$$

5. Integrate drag force over position to calculate energy loss

$$E = \int F \, dx$$

oil viscosity	0.011	N s/m^2	Loss FEV2V
oil density	830.6	kg/m^3	3 N
chamber length h	4	mm	
piston diameter d	20	mm	
Effective spring stiffness	156	N/mm	
Lift	8	mm	
reciprocating mass	164	g	

Position, mm	Velocity, m/s	Re	f	Tau	Fd, N
-4	0	0	#DIV/0!	#DIV/0!	#DIV/0!
-3.96	0.55385126	836.416	0.07652	2.4369455	0.000612
-3.92	0.78129349	1179.9	0.05424	3.4376913	0.000864
-3.88	0.95446576	1441.42	0.0444	4.1996493	0.001055
-3.84	1.0993213	1660.18	0.03855	4.8370137	0.001216
-3.8	1.22592916	1851.39	0.03457	5.3941323	0.001356
-3.76	1.33950118	2022.89	0.03164	5.8938052	0.001481
-3.72	1.44309208	2179.33	0.02937	6.3496087	0.001596
-3.68	1.53872928	2323.76	0.02754	11.878271	0.002985
-3.64	1.62781314	2458.29	0.02603	13.040011	0.003277
-3.6	1.71136802	2584.48	0.02476	14.170574	0.003561
-3.56	1.79016827	2703.48	0.02367	15.272665	0.003838
-3.52	1.86481674	2816.21	0.02273	16.348451	0.004109
-3.48	1.93579378	2923.4	0.02189	17.399709	0.004373
-3.44	2.00348964	3025.63	0.02115	18.427918	0.004631
-3.4	2.06822653	3123.4	0.02049	19.434328	0.004884
-3.36	2.13027423	3217.1	0.01989	20.420007	0.005132
-3.32	2.18986134	3307.09	0.01935	21.385883	0.005375
-3.28	2.2471836	3393.66	0.01886	22.332762	0.005613
-3.24	2.30241019	3477.06	0.01841	23.261355	0.005846
-3.2	2.3556885	3557.52	0.01799	24.172293	0.006075
-3.16	2.40714789	3635.23	0.01761	25.066138	0.0063
-3.12	2.45690267	3710.37	0.01725	25.942395	0.00652
-3.08	2.5050544	3783.09	0.01692	26.80452	0.006737
-3.04	2.55169384	3853.52	0.01661	27.644927	0.006949
-3	2.59690247	3921.79	0.01632	28.47499	0.007158
-2.96	2.64075377	3988.02	0.01605	29.295055	0.007363
-2.92	2.6833143	4052.29	0.01579	30.095435	0.007564
-2.88	2.72464453	4114.71	0.01555	30.881422	0.007761
-2.84	2.76479964	4175.35	0.01532	31.653284	0.007955
-2.8	2.80383013	4234.29	0.01511	32.411268	0.008146
-2.76	2.84178233	4291.61	0.01491	33.155605	0.008333
-2.72	2.87869889	4347.36	0.01472	33.886508	0.008517
-2.68	2.91461917	4401.6	0.01454	34.604179	0.008697
-2.64	2.94957955	4454.4	0.01437	35.308802	0.008874
-2.6	2.98361379	4505.8	0.0142	36.000553	0.009048
-2.56	3.01675322	4555.85	0.01405	36.679597	0.009219
-2.52	3.04902703	4604.59	0.0139	37.346096	0.009386
-2.48	3.08046243	4652.06	0.01376	38.000165	0.00955
-2.44	3.11108482	4698.3	0.01362	38.641972	0.009712
-2.4	3.140918	4743.36	0.01349	39.271634	0.00987

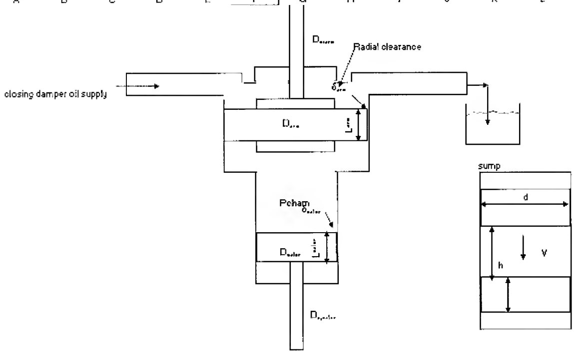
Drag_chart2 / **Drag_force estimates1** / Drag_force estimates2 / 200 V FEV masses

AutoShapes

NUM

N2

File Edit View Insert Format Tools Data Window Help



Problem Statement 1: The damper oil in the central chamber will move with the

Find: The flow loss during a transition due to oil drag on the chamber walls

Assumptions:

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- Assume the shear stress computed by the Darcy friction factor is unifor
- Assume ideal harmonic oscillator profile for velocity
- Assume smooth walled pipe

Solution Method:

1. Compute Reynolds number from average velocity, viscosity, and pipe

$$Re = \frac{\rho V d}{\mu}$$

2. Calculate Darcy friction factor from (White, Fluid Mechanics, 1986, p.

Re>2300

$$\frac{1}{f^{1/2}} = -2.0\log\left(\frac{\varepsilon/d}{3.7} + \frac{2.51}{Re_d f^{1/2}}\right)$$

$f =$

3. Compute Shear stress from Darcy friction factor

$$f = \frac{8\tau}{\rho V^2}$$

4. Calculate drag force by integrating shear stress over chamber walls

$$F_d = \tau_w \pi d h$$

5. Integrate drag force over position to calculate energy loss

$$E_{loss} = \int_{-L}^{L} F_d\, dx$$

Drag_chart2 | **Drag_force estimates1** | Drag_force estimates2 | 200 V FEV masses

Exhibit N

Ervin iEVA program activity from 2/6-2/27/03

File Edit View Favorites Tools Help

Other Places

Desktop

My Computer

My Documents

My Network Places

Details

Search Results
System Folder

Name	In Folder	Size	Type	Date Modified
Boost_efficiency at FEV per Olaf Eslen 010603.pdf	C:\Documents and Settings\jervi...	7 KB	Adobe Acrobat 7.0 ...	2/6/2003 5:39 AM
Power consumed at low engine speeds per Olaf Eslen 010603.txt	C:\Documents and Settings\jervi...	9 KB	Text Document	2/6/2003 11:23 AM
021220_NES_70 alternator_eff calculator.XLS	C:\Documents and Settings\jervi...	275 KB	Microsoft Excel Wor...	2/6/2003 3:15 PM
min t to complete trans at xxxA for m2 082902.xls	C:\Documents and Settings\jervi...	15,065 KB	Microsoft Excel Wor...	2/7/2003 11:30 AM
min t to complete trans at xxxA for m1 082902.xls	C:\Documents and Settings\jervi...	21,451 KB	Microsoft Excel Wor...	2/7/2003 11:30 AM
exhaust transition at xxxA 6bar m2 vol=135cc 111102.xls	C:\Documents and Settings\jervi...	8,256 KB	Microsoft Excel Wor...	2/13/2003 3:33 PM
FEV 6 bar transition 0111102 .xls	C:\Documents and Settings\jervi...	18,015 KB	Microsoft Excel Wor...	2/13/2003 4:53 PM
free oscillation 082902.xls	C:\Documents and Settings\jervi...	30,890 KB	Microsoft Excel Wor...	2/14/2003 12:07 PM
exhaust trans tion at xxxA 6bar m2 vol=135cc 100702 2.xls	C:\Documents and Settings\jervi...	6,687 KB	Microsoft Excel Wor...	2/14/2003 12:08 PM
exhaust transition at xxxA 4bar m2 vol=135cc 100702.xls	C:\Documents and Settings\jervi...	7,188 KB	Microsoft Excel Wor...	2/18/2003 2:28 PM
initsltj.m	C:\Documents and Settings\jervi...	5 KB	M File	2/19/2003 9:34 AM
sitswingj.mdl	C:\Documents and Settings\jervi...	109 KB	MDL File	2/19/2003 9:34 AM
the matlab model and its initialization file.rtf	C:\Documents and Settings\jervi...	312 KB	Rich Text Format	2/19/2003 9:35 AM
Power calculation with speed and temp effects.xls	C:\Documents and Settings\jervi...	114 KB	Microsoft Excel Wor...	2/19/2003 9:37 AM
exhaust trans.tion at xxxA 2bar m2 vol=135cc 100702.xls	C:\Documents and Settings\jervi...	6,504 KB	Microsoft Excel Wor...	2/19/2003 9:38 AM
min hold current 070902.xls	C:\Documents and Settings\jervi...	2,914 KB	Microsoft Excel Wor...	2/20/2003 11:55 AM
FEV contact_velocities 102803.ppt	C:\Documents and Settings\jervi...	624 KB	Microsoft PowerPoi...	2/21/2003 8:59 AM
JCAE LSP IR supplier bmmg.xls	C:\Documents and Settings\jervi...	170 KB	Microsoft Excel Wor...	2/21/2003 12:31 PM
data for al.xls	C:\Documents and Settings\jervi...	58 KB	Microsoft Excel Wor...	2/21/2003 12:31 PM
SDS Conformance for LSP actuator.doc	C:\Documents and Settings\jervi...	28 KB	Microsoft Word Doc...	2/21/2003 12:34 PM
FEV idle power consumption estimate for 1 bar exhaust open 012703 2.xls	C:\Documents and Settings\jervi...	105 KB	Microsoft Excel Wor...	2/24/2003 9:04 AM
PEA22503 gas work power model.ppt	C:\Documents and Settings\jervi...	13,026 KB	Microsoft PowerPoi...	2/25/2003 9:33 AM
pull in m1 free osc m2 hold +10%.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/25/2003 5:48 PM
LSP free osc transition 0 2 4 6 bar 020703 9 force based.xls	C:\Documents and Settings\jervi...	15,719 KB	Microsoft Excel Wor...	2/26/2003 8:38 AM
FEV free osc transition 0 2 4 6 bar 011503 10 force based.xls	C:\Documents and Settings\jervi...	12,051 KB	Microsoft Excel Wor...	2/26/2003 8:38 AM
LSP power consumption estimate 022403.xls	C:\Documents and Settings\jervi...	348 KB	Microsoft Excel Wor...	2/26/2003 8:50 AM
startup.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/26/2003 11:31 AM
startup2.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/26/2003 11:45 AM
null.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/26/2003 2:13 PM
test.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/26/2003 2:25 PM
m2 holding current 022603.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/26/2003 3:55 PM
m1 holding current 022603.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/26/2003 4:01 PM
free osc from m2 022603.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/26/2003 4:08 PM
free osc from m2 022603 2.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/26/2003 4:10 PM
free osc from m2 022603 3.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/26/2003 4:11 PM
free osc from m1 022603 1.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/26/2003 4:13 PM
free osc from m1 022603 2.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/26/2003 4:13 PM
free osc from m1 022603 3.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/26/2003 4:14 PM
m1 holding current 022603 2.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/26/2003 4:15 PM
m2 holding current 022603 2.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/26/2003 4:15 PM
min pullin current lash center position 082902.xls	C:\Documents and Settings\jervi...	7,142 KB	Microsoft Excel Wor...	2/27/2003 9:04 AM
m1 holding current 022703 2.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/27/2003 11:54 AM
m1 holding current 022703 1.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/27/2003 11:55 AM
m2 holding current 022703 1.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/27/2003 11:56 AM
m2 holding current 022703 2.txt	C:\Documents and Settings\jervi...	168 KB	Text Document	2/27/2003 11:57 AM
Free Osc from M1 hold + 10%.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 11:57 AM
free osc from m1 022703 1.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/27/2003 11:58 AM
free osc from m1 022703 2.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/27/2003 11:59 AM
free osc from m1 022703 3.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/27/2003 12:00 PM
Free Osc from M2 hold + 10%.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 12:00 PM
free osc from m2 022703 1.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/27/2003 12:01 PM
free osc from m2 022703 2.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/27/2003 12:02 PM
free osc from m2 022703 3.txt	C:\Documents and Settings\jervi...	626 KB	Text Document	2/27/2003 12:02 PM
transition from M1 hold + 10% 12a.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 12:15 PM

start

Exhibit N

Ervin iEVA program activity from 2/27-3/10/03

Search Results

File Edit View Favorites Tools Help

Other Places

Desktop

My Computer

My Documents

My Network Places

Details

Search Results
System Folder

Name	In Folder	Size	Type	Date Modified
transition from M2 hold + 10%.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 2:26 PM
transition from M1 hold – 10%.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 2:26 PM
transition from m2 to m1 164 022603.txt	C:\Documents and Settings\jervi...	279 KB	Text Document	2/27/2003 2:42 PM
transition from m2 to m1 174 022603.txt	C:\Documents and Settings\jervi...	279 KB	Text Document	2/27/2003 2:45 PM
transition from m2 to m1 184 022603.txt	C:\Documents and Settings\jervi...	279 KB	Text Document	2/27/2003 2:48 PM
transition from m2 to m1 194 022603.txt	C:\Documents and Settings\jervi...	279 KB	Text Document	2/27/2003 2:51 PM
transition from m2 to m1 234 022603.txt	C:\Documents and Settings\jervi...	279 KB	Text Document	2/27/2003 2:54 PM
transition from m2 to m1 604 022603.txt	C:\Documents and Settings\jervi...	279 KB	Text Document	2/27/2003 3:05 PM
transition from M2 hold + 10% 2dat.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 3:05 PM
transition from m1 to m2 124 022603.txt	C:\Documents and Settings\jervi...	270 KB	Text Document	2/27/2003 3:09 PM
transition from m1 to m2 134 022603.txt	C:\Documents and Settings\jervi...	270 KB	Text Document	2/27/2003 3:11 PM
transition from m1 to m2 164 022603.txt	C:\Documents and Settings\jervi...	270 KB	Text Document	2/27/2003 3:14 PM
transition from m1 to m2 604 022603.txt	C:\Documents and Settings\jervi...	270 KB	Text Document	2/27/2003 3:15 PM
transition from M1 hold + 10% 2.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 3:17 PM
transition from m1 to m2 304 022603.txt	C:\Documents and Settings\jervi...	270 KB	Text Document	2/27/2003 3:18 PM
min holding current M1.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 3:18 PM
min holding current M2.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 3:18 PM
transition.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 4:53 PM
transition from M1 hold + 10% exhaust.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	2/27/2003 5:19 PM
transition from m1 to m2 134 022703 exhaust test.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	2/27/2003 5:29 PM
JC4E free oscillation 032803.xls	C:\Documents and Settings\jervi...	29,997 KB	Microsoft Excel Wor...	3/3/2003 8:25 AM
49CD0420	C:\Documents and Settings\jervi...	6,281 KB	File	3/3/2003 8:29 AM
6bar_freeosc_03032003_jcae_1.csv	C:\Documents and Settings\jervi...	45 KB	Microsoft Office Exc...	3/3/2003 10:51 AM
6bar_freeosc_03032003_jcae_2.csv	C:\Documents and Settings\jervi...	45 KB	Microsoft Office Exc...	3/3/2003 10:52 AM
6bar free osc 1.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:53 AM
6bar free osc 2.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:54 AM
4bar_freeosc_03032003_jcae_1.csv	C:\Documents and Settings\jervi...	45 KB	Microsoft Office Exc...	3/3/2003 10:54 AM
4bar_freeosc_03032003_jcae_2.csv	C:\Documents and Settings\jervi...	44 KB	Microsoft Office Exc...	3/3/2003 10:54 AM
2bar_freeosc_03032003_jcae_1.csv	C:\Documents and Settings\jervi...	44 KB	Microsoft Office Exc...	3/3/2003 10:55 AM
4bar free osc 1.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:56 AM
2bar_freeosc_03032003_jcae_2.csv	C:\Documents and Settings\jervi...	44 KB	Microsoft Office Exc...	3/3/2003 10:56 AM
4bar free osc 2.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:56 AM
0bar_freeosc_03032003_jcae_1.csv	C:\Documents and Settings\jervi...	44 KB	Microsoft Office Exc...	3/3/2003 10:56 AM
0bar_freeosc_03032003_jcae_2.csv	C:\Documents and Settings\jervi...	44 KB	Microsoft Office Exc...	3/3/2003 10:57 AM
2bar free osc 1.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:57 AM
2bar free osc 2.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:58 AM
0bar free osc 1.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:58 AM
0bar free osc 2.txt	C:\Documents and Settings\jervi...	181 KB	Text Document	3/3/2003 10:59 AM
Free Osc from M1 hold + 10%.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	3/3/2003 11:00 AM
transition from M1 hold + 10% exhaust.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	3/3/2003 11:06 AM
mode forcing schedule for abbas 022803.xls	C:\Documents and Settings\jervi...	38 KB	Microsoft Excel Wor...	3/4/2003 12:16 PM
IVC exhaust performance 030403 Thomas Leiber.ppt	C:\Documents and Settings\jervi...	1,677 KB	Microsoft PowerPoi...	3/5/2003 2:52 PM
JC4E prelim test results 030403.ppt	C:\Documents and Settings\jervi...	2,236 KB	Microsoft PowerPoi...	3/5/2003 5:45 PM
JC4E free osc transition 0 2 4 6 bar 030203 force based.xls	C:\Documents and Settings\jervi...	11,498 KB	Microsoft Excel Wor...	3/6/2003 8:55 AM
IVC exhaust performance 030403 Thomas Leiber2.ppt	C:\Documents and Settings\jervi...	1,669 KB	Microsoft PowerPoi...	3/6/2003 9:04 AM
JC4E prelim test results 030403 2.ppt	C:\Documents and Settings\jervi...	5,645 KB	Microsoft PowerPoi...	3/6/2003 10:32 AM
IR supplier information JCI & Visteon & Motorola.xls	C:\Documents and Settings\jervi...	331 KB	Microsoft Excel Wor...	3/6/2003 10:42 AM
LSP idle power consumption estimate for 1 bar exhaust open 022403.xls	C:\Documents and Settings\jervi...	348 KB	Microsoft Excel Wor...	3/6/2003 4:32 PM
gasmodeling from thomas_03_03_07.ppt	C:\Documents and Settings\jervi...	127 KB	Microsoft PowerPoi...	3/7/2003 11:13 AM
prelim test results 030403 for JC4E.ppt	C:\Documents and Settings\jervi...	2,634 KB	Microsoft PowerPoi...	3/7/2003 12:03 PM
JC4E ash check transition 022803.xls	C:\Documents and Settings\jervi...	3,952 KB	Microsoft Excel Wor...	3/10/2003 8:55 AM
LSP power consumption estimate 031003 4.xls	C:\Documents and Settings\jervi...	349 KB	Microsoft Excel Wor...	3/10/2003 10:09 AM
exhaust transition at xxx4 4bar m2 coi=135cc 100702 2.xls	C:\Documents and Settings\jervi...	11,519 KB	Microsoft Excel Wor...	3/10/2003 11:38 AM
exhaust transition at xxx4 2bar m2 coi=135cc 100702 2.xls	C:\Documents and Settings\jervi...	12,711 KB	Microsoft Excel Wor...	3/10/2003 11:38 AM

start

Ervin iEVA program activity from 3/10-5/15/03

Search Results

File Edit View Favorites Tools Help

Other Places

Desktop
My Computer
My Documents
My Network Places

Details

Search Results
System Folder

Name	In Folder	Size	Type	Date Modified
exhaust transition at xxx4 6bar m2 vol=135cc 130702 3.xls	C:\Documents and Settings\jervi...	7,072 KB	Microsoft Excel Wor...	3/10/2003 11:44 AM
LSP free osc transition 0 2 4 6 bar 020703 10.xls	C:\Documents and Settings\jervi...	20,027 KB	Microsoft Excel Wor...	3/10/2003 11:56 AM
2 to 98 transition times for B1 prototype.ppt	C:\Documents and Settings\jervi...	73 KB	Microsoft PowerPoi...	3/11/2003 10:20 AM
FEV power consumption estimate 022403 2.xls	C:\Documents and Settings\jervi...	70 KB	Microsoft Excel Wor...	3/12/2003 3:50 PM
LSP supplier review presentation 031403.ppt	C:\Documents and Settings\jervi...	526 KB	Microsoft PowerPoi...	3/14/2003 10:19 AM
LSP supplier review presentation 031403 2.ppt	C:\Documents and Settings\jervi...	866 KB	Microsoft PowerPoi...	3/14/2003 10:23 AM
patent review for hydraulic lever and vibration cancelation.ppt	C:\Documents and Settings\jervi...	1,433 KB	Microsoft PowerPoi...	3/17/2003 12:03 PM
patent review for hydraulic lever and vibration cancelation.ppt	C:\Documents and Settings\jervi...	1,400 KB	Microsoft PowerPoi...	3/17/2003 12:03 PM
sixsigma EVA power consumption EQs.doc	C:\Documents and Settings\jervi...	27 KB	Microsoft Word Doc...	3/17/2003 2:35 PM
AWB=9933177100 INV#11125137.msg	C:\Documents and Settings\jervi...	19 KB	Outlook Item	3/24/2003 9:02 AM
JCAE 0 bar closing transition from M2 022803.xls	C:\Documents and Settings\jervi...	22,809 KB	Microsoft Excel Wor...	3/24/2003 4:18 PM
FEV free osc transition 0 2 4 6 bar 011503 11 force based.xls	C:\Documents and Settings\jervi...	18,784 KB	Microsoft Excel Wor...	3/25/2003 9:02 AM
prelim test results 030403 for JCAE Consumption corrected for landing timing ti...	C:\Documents and Settings\jervi...	2,603 KB	Microsoft PowerPoi...	3/25/2003 2:04 PM
12-025.pdf	C:\Documents and Settings\jervi...	4,855 KB	Adobe Acrobat 7.0 ...	3/25/2003 4:45 PM
JCAE free oscillation 032603 2.xls	C:\Documents and Settings\jervi...	24,226 KB	Microsoft Excel Wor...	3/26/2003 2:52 PM
min t to complete trans at xxx4 for m1 072902.xls	C:\Documents and Settings\jervi...	31,111 KB	Microsoft Excel Wor...	3/26/2003 5:39 PM
min t to complete trans at xxx4 for m2 072902.xls	C:\Documents and Settings\jervi...	10,922 KB	Microsoft Excel Wor...	3/27/2003 8:53 AM
full transition example w & wo gas work.xls	C:\Documents and Settings\jervi...	1,895 KB	Microsoft Excel Wor...	3/28/2003 12:09 PM
Energy magnitude summary for Ian.xls	C:\Documents and Settings\jervi...	30 KB	Microsoft Excel Wor...	3/28/2003 12:09 PM
Actuator Power Consumption Comparison 032603.ppt	C:\Documents and Settings\jervi...	9,116 KB	Microsoft PowerPoi...	3/28/2003 12:11 PM
Actuator starting strategies 28 03 2003.doc	C:\Documents and Settings\jervi...	93 KB	Microsoft Word Doc...	3/28/2003 12:45 PM
FEV 6 bar transition 135cc 111102 2.xls	C:\Documents and Settings\jervi...	18,783 KB	Microsoft Excel Wor...	3/31/2003 10:53 AM
durability test results.xls	C:\Documents and Settings\jervi...	16 KB	Microsoft Excel Wor...	3/31/2003 12:02 PM
Exhaust work consumption for camshaft.xls	C:\Documents and Settings\jervi...	14 KB	Microsoft Excel Wor...	3/31/2003 2:53 PM
JCAE min hold current 032803.xls	C:\Documents and Settings\jervi...	2,324 KB	Microsoft Excel Wor...	3/31/2003 4:37 PM
pea33103 for vance and simmering.ppt	C:\Documents and Settings\jervi...	10,676 KB	Microsoft PowerPoi...	4/8/2003 8:08 AM
RE Durability test results.msg	C:\Documents and Settings\jervi...	28 KB	Outlook Item	4/9/2003 12:48 PM
FW Preliminary data from the vehicle engine.msg	C:\Documents and Settings\jervi...	58 KB	Outlook Item	4/9/2003 12:48 PM
FW Durability test results.msg	C:\Documents and Settings\jervi...	44 KB	Outlook Item	4/9/2003 12:58 PM
RE mini-lift query.msg	C:\Documents and Settings\jervi...	27 KB	Outlook Item	4/9/2003 1:00 PM
RE Ford testing of B1 prototype 1.msg	C:\Documents and Settings\jervi...	53 KB	Outlook Item	4/9/2003 1:05 PM
RE Ford testing of B1 prototype 2.msg	C:\Documents and Settings\jervi...	134 KB	Outlook Item	4/9/2003 1:06 PM
Re Ford testing of B1 prototype.msg	C:\Documents and Settings\jervi...	39 KB	Outlook Item	4/9/2003 1:08 PM
laser doppler vibrometer ofv3001_0800_04e.pdf	C:\Documents and Settings\jervi...	2,004 KB	Adobe Acrobat 7.0 ...	4/10/2003 10:24 AM
Effective area as a function of lift 25 26 28mm.xls	C:\Documents and Settings\jervi...	286 KB	Microsoft Excel Wor...	4/10/2003 3:43 PM
Revision Levels of B1 actuator_220403.ppt	C:\Documents and Settings\jervi...	1,567 KB	Microsoft PowerPoi...	4/22/2003 8:21 AM
LSP Actuator Pictures.doc	C:\Documents and Settings\jervi...	1,258 KB	Microsoft Word Doc...	4/25/2003 11:35 AM
actuator collision3.xls	C:\Documents and Settings\jervi...	7,203 KB	Microsoft Excel Wor...	4/29/2003 11:19 AM
AW Purchase Proposal.msg	C:\Documents and Settings\jervi...	35 KB	Outlook Item	5/2/2003 9:06 AM
actuator collision 01 mm lash 08 e 5e-6ts.wm	C:\Documents and Settings\jervi...	2,761 KB	Windows Media Aud...	5/5/2003 2:45 PM
actuator collision 03 mm lash 08 e 1e-6ts.wm	C:\Documents and Settings\jervi...	6,467 KB	Windows Media Aud...	5/5/2003 2:45 PM
Calculations for LSP design strength & deflection.xls	C:\Documents and Settings\jervi...	294 KB	Microsoft Excel Wor...	5/6/2003 7:48 AM
LSP stress analysis_050703.pdf	C:\Documents and Settings\jervi...	1,723 KB	Adobe Acrobat 7.0 ...	5/7/2003 7:50 AM
Actuator Power Consumption Comparison Chart 050803.ppt	C:\Documents and Settings\jervi...	6,296 KB	Microsoft PowerPoi...	5/8/2003 9:29 AM
JCAE power consumption estimate 022403 correct for timing.xls	C:\Documents and Settings\jervi...	343 KB	Microsoft Excel Wor...	5/8/2003 10:15 AM
JCAE power consumption estimate 022403.xls	C:\Documents and Settings\jervi...	342 KB	Microsoft Excel Wor...	5/8/2003 10:15 AM
phi.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 2:30 PM
up.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 2:30 PM
no_chan.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 2:30 PM
time_integral.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 2:31 PM
WavePacking.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 2:46 PM
onePix.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 2:46 PM
selfRes.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 2:46 PM
magnetics 101.htm	C:\Documents and Settings\jervi...	43 KB	HTML Document	5/15/2003 2:48 PM

start 2 Windows...

63

64

Ervin iEVA program activity from 5/15-6/23/03

Search Results

File Edit View Favorites Tools Help

Other Places
- Desktop
- My Computer
- My Documents
- My Network Places

Details

Search Results
System Folder

Name	In Folder	Size	Type	Date Modified
style4.css	C:\Documents and Settings\jervi...	2 KB	Cascading Style Sh...	5/15/2003 2:45 PM
linkage.png	C:\Documents and Settings\jervi...	6 KB	PNG Image	5/15/2003 3:29 PM
long_wire_m.png	C:\Documents and Settings\jervi...	4 KB	PNG Image	5/15/2003 3:29 PM
no_char.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 3:29 PM
path_len.png	C:\Documents and Settings\jervi...	4 KB	PNG Image	5/15/2003 3:29 PM
phi.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 3:29 PM
p.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 3:29 PM
time_integral.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 3:29 PM
toroid_xmpl.png	C:\Documents and Settings\jervi...	7 KB	PNG Image	5/15/2003 3:29 PM
up.gif	C:\Documents and Settings\jervi...	1 KB	GIF Image	5/15/2003 3:29 PM
warning.png	C:\Documents and Settings\jervi...	1 KB	PNG Image	5/15/2003 3:29 PM
magnetics 101 terminology.htm	C:\Documents and Settings\jervi...	72 KB	HTML Document	5/15/2003 3:30 PM
style4.css	C:\Documents and Settings\jervi...	2 KB	Cascading Style Sh...	5/15/2003 3:30 PM
DiamlerChrysler & Mag Marelli Vienna May 2003 winter symposium paper german...	C:\Documents and Settings\jervi...	2,194 KB	Microsoft Word Doc...	5/19/2003 3:35 PM
Magnetism.doc	C:\Documents and Settings\jervi...	153 KB	Microsoft Word Doc...	5/20/2003 8:18 AM
vehicle level engine specs AJ33 NA 42 CP 1 pager.xls	C:\Documents and Settings\jervi...	93 KB	Microsoft Excel Wor...	5/27/2003 3:59 PM
RE Georgia Tech Magnetostrictive Actuators.msg	C:\Documents and Settings\jervi...	28 KB	Outlook Item	5/28/2003 8:33 AM
http.doc	C:\Documents and Settings\jervi...	670 KB	Microsoft Word Doc...	5/29/2003 10:01 AM
hydraulic camless.doc	C:\Documents and Settings\jervi...	679 KB	Microsoft Word Doc...	5/29/2003 10:10 AM
LSP_workshop_followup 03_05_28.ppt	C:\Documents and Settings\jervi...	2,268 KB	Microsoft PowerPoi...	5/29/2003 2:42 PM
Updated X350 load profiles for the alternator from shahram.xls	C:\Documents and Settings\jervi...	2,757 KB	Microsoft Excel Wor...	6/3/2003 9:35 AM
Diamler & Mag Marelli winter symposium paper.doc	C:\Documents and Settings\jervi...	470 KB	Microsoft Word Doc...	6/4/2003 2:09 PM
Diamler & Mag Marelli winter symposium paper 2.doc	C:\Documents and Settings\jervi...	471 KB	Microsoft Word Doc...	6/4/2003 2:09 PM
Full Load Dyno data from engine May 20 2003.xls	C:\Documents and Settings\jervi...	3,134 KB	Microsoft Excel Wor...	6/9/2003 9:18 AM
Evaluation of Electro Active Polymer Actuator with lever.doc	C:\Documents and Settings\jervi...	30 KB	Microsoft Word Doc...	6/9/2003 9:45 AM
gas work calculation method for Kotwicki.ppt	C:\Documents and Settings\jervi...	5,006 KB	Microsoft PowerPoi...	6/9/2003 4:34 PM
gas force area vs lift profiles summary.xls	C:\Documents and Settings\jervi...	51 KB	Microsoft Excel Wor...	6/10/2003 7:25 AM
LSP free osc transition 0 2 4 6 bar 020703 11.xls	C:\Documents and Settings\jervi...	20,393 KB	Microsoft Excel Wor...	6/10/2003 7:25 AM
model forcing schedule for aboss no friction 061003.xls	C:\Documents and Settings\jervi...	39 KB	Microsoft Excel Wor...	6/11/2003 9:07 AM
peterson model for LSP actuator & eddy current.doc	C:\Documents and Settings\jervi...	292 KB	Microsoft Word Doc...	6/13/2003 7:08 AM
workshop_followup2 03_06_101.ppt	C:\Documents and Settings\jervi...	451 KB	Microsoft PowerPoi...	6/16/2003 10:17 AM
DiamlerChrysler & Mag Marelli Vienna May 2003 winter symposium paper english ...	C:\Documents and Settings\jervi...	2,703 KB	Microsoft Word Doc...	6/17/2003 3:28 PM
LSP 2 bar transition 135cc 100702 2.xls	C:\Documents and Settings\jervi...	16,817 KB	Microsoft Excel Wor...	6/18/2003 9:27 AM
Example Current traces for 5 different events.doc	C:\Documents and Settings\jervi...	137 KB	Microsoft Word Doc...	6/18/2003 9:40 AM
EP4_M-H_Electrical_Loads from shahram.xls	C:\Documents and Settings\jervi...	58 KB	Microsoft Excel Wor...	6/23/2003 9:03 AM
FEV idle power consumption estimate for 1 bar exhaust open 012703 3.xls	C:\Documents and Settings\jervi...	105 KB	Microsoft Excel Wor...	6/23/2003 9:21 AM
min hold I for M1.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	6/23/2003 9:57 AM
m1 hold 062303.txt	C:\Documents and Settings\jervi...	67 KB	Text Document	6/23/2003 9:58 AM
m2 hold 062303.txt	C:\Documents and Settings\jervi...	67 KB	Text Document	6/23/2003 9:59 AM
min hold I for M2.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	6/23/2003 9:59 AM
free osc from M2.dat	C:\Documents and Settings\jervi...	1 KB	DAT File	6/23/2003 10:00 AM
freeosc from m2 062303.txt	C:\Documents and Settings\jervi...	420 KB	Text Document	6/23/2003 10:01 AM
freeosc from m1 4bar 062303 1.txt	C:\Documents and Settings\jervi...	133 KB	Text Document	6/23/2003 10:32 AM
freeosc_fromm1_4bar_062303_1.csv	C:\Documents and Settings\jervi...	25 KB	Microsoft Office Exc...	6/23/2003 10:33 AM
freeosc_fromm1_4bar_062303_2.csv	C:\Documents and Settings\jervi...	25 KB	Microsoft Office Exc...	6/23/2003 10:33 AM
freeosc from m1 4bar 062303 2.txt	C:\Documents and Settings\jervi...	133 KB	Text Document	6/23/2003 10:36 AM
freeosc_fromm1_6bar_062303_1.csv	C:\Documents and Settings\jervi...	25 KB	Microsoft Office Exc...	6/23/2003 10:38 AM
freeosc from m1 6bar 062303 1.txt	C:\Documents and Settings\jervi...	133 KB	Text Document	6/23/2003 10:38 AM
freeosc from m1 6bar 062303 2.txt	C:\Documents and Settings\jervi...	133 KB	Text Document	6/23/2003 10:39 AM
freeosc_fromm1_6bar_062303_2.csv	C:\Documents and Settings\jervi...	24 KB	Microsoft Office Exc...	6/23/2003 10:39 AM
freeosc_fromm1_2bar_062303_1.csv	C:\Documents and Settings\jervi...	24 KB	Microsoft Office Exc...	6/23/2003 10:40 AM
freeosc from m1 2bar 062303 1.txt	C:\Documents and Settings\jervi...	133 KB	Text Document	6/23/2003 10:40 AM
freeosc_fromm1_2bar_062303_2.csv	C:\Documents and Settings\jervi...	25 KB	Microsoft Office Exc...	6/23/2003 10:40 AM
freeosc from m1 2bar 062303 2.txt	C:\Documents and Settings\jervi...	133 KB	Text Document	6/23/2003 10:41 AM

start

Ervin iEVA program activity from 6/23-6/30/03

Search Results

File Edit View Favorites Tools Help

Other Places
- Desktop
- My Computer
- My Documents
- My Network Places

Details

Search Results
System Folder

Name	In Folder	Size	Type	Date Modified
pressure three osc for M1.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	6/23/2003 11:02 AM
2bar opening 26A 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:06 AM
2bar_opening_26a_062303_1.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 11:06 AM
2bar opening 26A 1ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:09 AM
2bar_opening_26a_1ms_062303.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	6/23/2003 11:09 AM
2bar opening 26A 2ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:11 AM
2bar_opening_26a_2ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 11:12 AM
2bar_opening_275a_25ms_062303.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	6/23/2003 11:15 AM
2bar opening 275A 25ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:15 AM
2bar opening 285A 26ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:16 AM
2bar_opening_285a_26ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 11:17 AM
2bar opening 295A 27ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:18 AM
2bar_opening_295a_27ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 11:18 AM
2bar opening 35A 29ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:21 AM
2bar_opening_35a_29ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 11:21 AM
2bar_opening_40a_2ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 11:28 AM
2bar opening 40A 3ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 11:28 AM
4bar_opening_39a_0ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 1:11 PM
4bar opening 39A 0ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:11 PM
4bar_opening_40a_2ms_062303.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	6/23/2003 1:14 PM
4bar opening 40A 2ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:14 PM
4bar opening 39A 15ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:16 PM
4bar_opening_39a_15ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 1:16 PM
4bar opening 44A 25ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:20 PM
4bar_opening_44a_25ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 1:20 PM
4bar_opening_50a_27ms_062303.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	6/23/2003 1:25 PM
4bar opening 50A 27ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:25 PM
6bar opening 53A 0ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:30 PM
6bar_opening_53a_0ms_062303.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	6/23/2003 1:30 PM
6bar opening 54A 1ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:34 PM
6bar_opening_54a_1ms_062303.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	6/23/2003 1:34 PM
6bar opening 56A 18ms 062303.txt	C:\Documents and Settings\jerv...	142 KB	Text Document	6/23/2003 1:38 PM
6bar_opening_56a_18ms_062303.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	6/23/2003 1:38 PM
6bar open from M1.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	6/23/2003 1:38 PM
2bar open from M1.dat		1 KB	DAT File	6/23/2003 1:38 PM
LSP JC4E comparison slide.ppt		616 KB	Microsoft PowerPoi...	6/24/2003 1:52 PM
200XMY X350 iEVA PALS.xls		334 KB	Microsoft Excel Wor...	6/24/2003 2:07 PM
IR Program tailgers.ppt		553 KB	Microsoft PowerPoi...	6/24/2003 2:07 PM
Exhaust work consumption for camshaft.xls	C:\Documents and Settings\jerv...	14 KB	Microsoft Excel Wor...	6/25/2003 7:52 AM
effect of power consumption load on peak power & T & low end T.xls	C:\Documents and Settings\jerv...	36 KB	Microsoft Excel Wor...	6/25/2003 7:52 AM
b2 with macro.xls	C:\Documents and Settings\jerv...	236 KB	Microsoft Excel Wor...	6/25/2003 8:06 AM
JC4E free osc transition 0 2 4 6 bar 030203 force based 2.xls	C:\Documents and Settings\jerv...	22,779 KB	Microsoft Excel Wor...	6/25/2003 8:39 AM
97640Methodtocancel VibrationsInEVActuators2.doc	C:\Documents and Settings\jerv...	154 KB	Microsoft Word Doc...	6/25/2003 4:12 PM
LSP free osc transition 0 2 4 6 bar 020703 12.xls	C:\Documents and Settings\jerv...	17,936 KB	Microsoft Excel Wor...	6/26/2003 1:56 PM
LSP JC4E comparison slide.ppt	C:\Documents and Settings\jerv...	616 KB	Microsoft PowerPoi...	6/27/2003 8:57 AM
LSP JC4E comparison slide 2.ppt	C:\Documents and Settings\jerv...	571 KB	Microsoft PowerPoi...	6/27/2003 8:58 AM
AW Valve Lift Tolerance.msg	C:\Documents and Settings\jerv...	249 KB	Outlook Item	6/30/2003 7:40 AM
RE battery cost.msg	C:\Documents and Settings\jerv...	22 KB	Outlook Item	6/30/2003 7:41 AM
RE battery cost2.msg	C:\Documents and Settings\jerv...	19 KB	Outlook Item	6/30/2003 7:42 AM
Additional alternator efficiency analysis.msg	C:\Documents and Settings\jerv...	57 KB	Outlook Item	6/30/2003 7:42 AM
EVA 4353 6000rpm 041003 opt.msg	C:\Documents and Settings\jerv...	1,606 KB	Outlook Item	6/30/2003 7:44 AM
FW X350 electrical loads for FE analysis.msg	C:\Documents and Settings\jerv...	101 KB	Outlook Item	6/30/2003 7:45 AM
X350 4.2L V8-Steady_70mph Speed-Load Point for the Engine.msg	C:\Documents and Settings\jerv...	23 KB	Outlook Item	6/30/2003 7:48 AM
Full Load Performance Optimization of EV on Dyno by Nate.xls	C:\Documents and Settings\jerv...	5,280 KB	Microsoft Excel Wor...	6/30/2003 9:52 AM

In Folder: C:\Documents and Settings\jervin1\My Documents\MyDocuments\camlessgeneral\JC4E\zae062303
Type: Microsoft Office Excel Comma Separated Values File
Date Modified: 6/23/2003 1:38 PM
Size: 24.1 KB

start | 2 Windows...

ES

60

Ervin iEVA program activity from 6/30-7/15/03

Search Results

File Edit View Favorites Tools Help

Other Places: Desktop, My Computer, My Documents, My Network Places

Details: Search Results, System Folder

Name	In Folder	Size	Type	Date Modified
transition time as a function of gas work LSP JCAE.xls	C:\Documents and Settings\jerv...	182 KB	Microsoft Excel Wor...	6/30/2003 12:49 PM
FGTI-080PLUS-scanned figures 1-5.pdf	C:\Documents and Settings\jerv...	257 KB	Adobe Acrobat 7.0 ...	7/7/2003 11:35 AM
hydraulic amplifier patent application.doc	C:\Documents and Settings\jerv...	59 KB	Microsoft Word Doc...	7/7/2003 2:17 PM
JCAE 0 bar closing transition from M2 022803 correct for current.xls	C:\Documents and Settings\jerv...	17,159 KB	Microsoft Excel Wor...	7/7/2003 2:24 PM
JCAE 2 bar transition 135cc 062603.xls	C:\Documents and Settings\jerv...	11,055 KB	Microsoft Excel Wor...	7/7/2003 2:24 PM
Heat transfer issue_030708.ppt	C:\Documents and Settings\jerv...	527 KB	Microsoft PowerPoi...	7/9/2003 4:04 PM
Mounting_option5_030708.ppt	C:\Documents and Settings\jerv...	129 KB	Microsoft PowerPoi...	7/9/2003 4:04 PM
97640MethodtozerovibrationsinEVActuators3.doc	C:\Documents and Settings\jerv...	151 KB	Microsoft Word Doc...	7/9/2003 4:32 PM
EVA M=3 review - 071503.ppt	C:\Documents and Settings\jerv...	13,104 KB	Microsoft PowerPoi...	7/10/2003 4:56 PM
EVA M=3 review - 0715032.ppt	C:\Documents and Settings\jerv...	13,028 KB	Microsoft PowerPoi...	7/10/2003 4:57 PM
Supplier Selection – Technical Tradeoffs.ppt	C:\Documents and Settings\jerv...	81 KB	Microsoft PowerPoi...	7/10/2003 5:00 PM
LSP JCAE comparison slide2.ppt	C:\Documents and Settings\jerv...	617 KB	Microsoft PowerPoi...	7/10/2003 5:00 PM
freeosc from m1 1.txt	C:\Documents and Settings\jerv...	618 KB	Text Document	7/14/2003 1:37 PM
freeosc from m1 2.txt	C:\Documents and Settings\jerv...	618 KB	Text Document	7/14/2003 1:38 PM
freeosc from m2 1.txt	C:\Documents and Settings\jerv...	618 KB	Text Document	7/14/2003 1:43 PM
freeosc from m2 2.txt	C:\Documents and Settings\jerv...	618 KB	Text Document	7/14/2003 1:45 PM
transition from m1 to m2 0ms 135.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:08 PM
transition from m1 to m2 16ms 14.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:10 PM
transition from m1 to m2 19ms 15.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:12 PM
transition from m1 to m2 26ms 16.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:15 PM
transition from m1 to m2 27ms 17.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:16 PM
transition from m1 to m2 28ms 19.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:19 PM
transition from m1 to m2.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	7/14/2003 2:22 PM
transition from m2 to m1 0ms 195.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:30 PM
transition from m2 to m1 14ms 20.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:37 PM
transition from m2 to m1 18ms 21.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:38 PM
transition from m2 to m1 19ms 22.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:39 PM
transition from m2 to m1 24ms 25.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:42 PM
transition from m2 to m1 26ms 35.txt	C:\Documents and Settings\jerv...	177 KB	Text Document	7/14/2003 2:43 PM
RE valve mass info.msg	C:\Documents and Settings\jerv...	36 KB	Outlook Item	7/15/2003 7:46 AM
valve mass info as requested.msg	C:\Documents and Settings\jerv...	36 KB	Outlook Item	7/15/2003 7:47 AM
NOTIFICATION OF ORDER PLACEMENT 07 03.msg	C:\Documents and Settings\jerv...	20 KB	Outlook Item	7/15/2003 7:49 AM
valve drawings.msg	C:\Documents and Settings\jerv...	147 KB	Outlook Item	7/15/2003 7:50 AM
transition from m2 to m1.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	7/15/2003 8:49 AM
Exhaust pressure2.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	7/15/2003 10:47 AM
free osc from M1.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	7/15/2003 3:17 PM
free osc from M2.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	7/15/2003 3:24 PM
m1 hold 1.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	7/15/2003 3:36 PM
m2 hold 1.dat	C:\Documents and Settings\jerv...	1 KB	DAT File	7/15/2003 3:42 PM
hold m1 071503.txt	C:\Documents and Settings\jerv...	92 KB	Text Document	7/15/2003 3:49 PM
2bar 234 0ms 071503.txt	C:\Documents and Settings\jerv...	92 KB	Text Document	7/15/2003 3:50 PM
2bar_23a_0ms_071503.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	7/15/2003 3:50 PM
2bar_23a_0ms_071503.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	7/15/2003 3:50 PM
2bar 244 16ms 071503.txt	C:\Documents and Settings\jerv...	93 KB	Text Document	7/15/2003 3:53 PM
2bar_24a_16ms_071503.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	7/15/2003 3:53 PM
2bar_24a_16ms_071503.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	7/15/2003 3:53 PM
2bar 254 20ms 071503.txt	C:\Documents and Settings\jerv...	93 KB	Text Document	7/15/2003 3:55 PM
2bar_25a_20ms_071503.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	7/15/2003 3:55 PM
2bar_25a_20ms_071503.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	7/15/2003 3:55 PM
2bar 264 21ms 071503.txt	C:\Documents and Settings\jerv...	93 KB	Text Document	7/15/2003 3:56 PM
2bar_26a_21ms_071503.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	7/15/2003 3:56 PM
2bar_26a_21ms_071503.csv	C:\Documents and Settings\jerv...	24 KB	Microsoft Office Exc...	7/15/2003 3:56 PM
2bar 304 22ms 071503.txt	C:\Documents and Settings\jerv...	93 KB	Text Document	7/15/2003 4:00 PM
2bar_30a_22ms_071503.csv	C:\Documents and Settings\jerv...	25 KB	Microsoft Office Exc...	7/15/2003 4:00 PM

start

E7

Ervin iEVA program activity from 7/15-7/28/03

Search Results

File Edit View Favorites Tools Help

Other Places

Desktop
My Computer
My Documents
My Network Places

Details

Search Results
System Folder

Name	In Folder	Size	Type	Date Modified
2bar_30a_22ms_071503.csv	C:\Documents and Settings\ervi...	25 KB	Microsoft Office Exc...	7/15/2003 4:00 PM
4bar_34a_0ms_071503.csv	C:\Documents and Settings\ervi...	25 KB	Microsoft Office Exc...	7/15/2003 4:05 PM
4bar 344 0ms 071503.txt	C:\Documents and Settings\ervi...	94 KB	Text Document	7/15/2003 4:05 PM
4bar 354 14ms 071503.txt	C:\Documents and Settings\ervi...	96 KB	Text Document	7/15/2003 4:07 PM
4bar_35a_14ms_071503.csv	C:\Documents and Settings\ervi...	24 KB	Microsoft Office Exc...	7/15/2003 4:07 PM
4bar_36a_15ms_071503.csv	C:\Documents and Settings\ervi...	25 KB	Microsoft Office Exc...	7/15/2003 4:09 PM
4bar 364 15ms 071503.txt	C:\Documents and Settings\ervi...	97 KB	Text Document	7/15/2003 4:09 PM
4bar 374 17ms 071503.txt	C:\Documents and Settings\ervi...	97 KB	Text Document	7/15/2003 4:11 PM
4bar_37a_17ms_071503.csv	C:\Documents and Settings\ervi...	25 KB	Microsoft Office Exc...	7/15/2003 4:11 PM
4bar 384 18ms 071503.txt	C:\Documents and Settings\ervi...	98 KB	Text Document	7/15/2003 4:14 PM
4bar_38a_18ms_071503.csv	C:\Documents and Settings\ervi...	24 KB	Microsoft Office Exc...	7/15/2003 4:14 PM
4bar 404 20ms 071503.txt	C:\Documents and Settings\ervi...	99 KB	Text Document	7/15/2003 4:15 PM
4bar_40a_20ms_071503.csv	C:\Documents and Settings\ervi...	24 KB	Microsoft Office Exc...	7/15/2003 4:15 PM
6bar_45a_0ms_071503.csv	C:\Documents and Settings\ervi...	25 KB	Microsoft Office Exc...	7/15/2003 4:17 PM
6bar 454 0ms 071503.txt	C:\Documents and Settings\ervi...	99 KB	Text Document	7/15/2003 4:17 PM
6bar_46a_06ms_071503.csv	C:\Documents and Settings\ervi...	24 KB	Microsoft Office Exc...	7/15/2003 4:22 PM
6bar 464 06ms 071503.txt	C:\Documents and Settings\ervi...	99 KB	Text Document	7/15/2003 4:22 PM
6bar 484 09ms 071503.txt	C:\Documents and Settings\ervi...	99 KB	Text Document	7/15/2003 4:24 PM
6bar_48a_09ms_071503.csv	C:\Documents and Settings\ervi...	24 KB	Microsoft Office Exc...	7/15/2003 4:24 PM
6bar 474 07ms 071503.txt	C:\Documents and Settings\ervi...	99 KB	Text Document	7/15/2003 4:26 PM
6bar_47a_07ms_071503.csv	C:\Documents and Settings\ervi...	24 KB	Microsoft Office Exc...	7/15/2003 4:26 PM
6bar_50a_11ms_071503.csv	C:\Documents and Settings\ervi...	24 KB	Microsoft Office Exc...	7/15/2003 4:28 PM
6bar 504 11ms 071503.txt	C:\Documents and Settings\ervi...	100 KB	Text Document	7/15/2003 4:28 PM
Exhaust pressure.dat	C:\Documents and Settings\ervi...	1 KB	DAT File	7/15/2003 4:29 PM
6bar free osc 1 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:31 PM
6bar_freeosc1_071503.csv	C:\Documents and Settings\ervi...	38 KB	Microsoft Office Exc...	7/15/2003 4:31 PM
6bar_freeosc2_071503.csv	C:\Documents and Settings\ervi...	38 KB	Microsoft Office Exc...	7/15/2003 4:31 PM
6bar free osc 2 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:31 PM
4bar free osc 1 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:32 PM
4bar_freeosc1_071503.csv	C:\Documents and Settings\ervi...	38 KB	Microsoft Office Exc...	7/15/2003 4:32 PM
4bar_freeosc2_071503.csv	C:\Documents and Settings\ervi...	38 KB	Microsoft Office Exc...	7/15/2003 4:33 PM
4bar free osc 2 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:33 PM
2bar_freeosc1_071503.csv	C:\Documents and Settings\ervi...	38 KB	Microsoft Office Exc...	7/15/2003 4:35 PM
2bar free osc 1 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:35 PM
2bar_freeosc2_071503.csv	C:\Documents and Settings\ervi...	38 KB	Microsoft Office Exc...	7/15/2003 4:36 PM
2bar free osc 2 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:36 PM
0bar free osc 1 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:37 PM
0bar free osc 2 071503.txt	C:\Documents and Settings\ervi...	177 KB	Text Document	7/15/2003 4:37 PM
patent application.doc	C:\Documents and Settings\ervi...	44 KB	Microsoft Word Doc...	7/17/2003 9:56 AM
FIGS. 1-3.pdf	C:\Documents and Settings\ervi...	981 KB	Adobe Acrobat 7.0 ...	7/17/2003 9:56 AM
Effect of reducing laminate length by 10mm.xls	C:\Documents and Settings\ervi...	17 KB	Microsoft Excel Wor...	7/17/2003 10:01 AM
calculator for finding turning point as a function of gas work.xls	C:\Documents and Settings\ervi...	15 KB	Microsoft Excel Wor...	7/17/2003 10:01 AM
ICAE power consumption estimate 070603 2.xls	C:\Documents and Settings\ervi...	571 KB	Microsoft Excel Wor...	7/17/2003 2:57 PM
TRW-Ankerbruchbericht 623 armature defects on V10 actuator.pdf	C:\Documents and Settings\ervi...	693 KB	Adobe Acrobat 7.0 ...	7/19/2003 1:24 PM
FW FEV 42V CR actuator info.msg	C:\Documents and Settings\ervi...	33 KB	Outlook Item	7/22/2003 11:27 AM
TRW armature failure analysis translation.doc	C:\Documents and Settings\ervi...	20 KB	Microsoft Word Doc...	7/22/2003 1:48 PM
LSP 0 bar opening transition from M1 070902.xls	C:\Documents and Settings\ervi...	17,501 KB	Microsoft Excel Wor...	7/23/2003 2:54 PM
LSP 0 bar closing transition from M2 070902.xls	C:\Documents and Settings\ervi...	11,722 KB	Microsoft Excel Wor...	7/23/2003 2:54 PM
LSP 4 bar transition 135cc 100702 2.xls	C:\Documents and Settings\ervi...	17,365 KB	Microsoft Excel Wor...	7/23/2003 2:54 PM
FEV power consumption estimate 070603 3.xls	C:\Documents and Settings\ervi...	598 KB	Microsoft Excel Wor...	7/24/2003 3:22 PM
LSP power consumption estimate 022403 5.xls	C:\Documents and Settings\ervi...	2,352 KB	Microsoft Excel Wor...	7/24/2003 3:54 PM
ICAE power consumption estimate 070603 3.xls	C:\Documents and Settings\ervi...	460 KB	Microsoft Excel Wor...	7/24/2003 3:58 PM
FEV power consumption estimate for CR app 072403 3 1 ft of wire.xls	C:\Documents and Settings\ervi...	708 KB	Microsoft Excel Wor...	7/25/2003 11:26 AM
DER on Power Consumption Comparison 072803.ppt	C:\Documents and Settings\ervi...	14,563 KB	Microsoft PowerPoi...	7/28/2003 4:03 PM

start

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Search Results

Ervin iEVA program activity from 7/28-9/9/03

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Other Places

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System Folder

Name	In Folder	Size	Type	Date Modified
FEV power consumption estimate for CR app 072403 3.xls	C:\Documents and Settings\ervi...	700 KB	Microsoft Excel Wor...	7/28/2003 4:08 PM
JC4E power consumption estimate for CR app 072403 3.xls	C:\Documents and Settings\ervi...	704 KB	Microsoft Excel Wor...	7/28/2003 4:08 PM
Visteon power consumption estimate for CR app 072403 3.xls	C:\Documents and Settings\ervi...	699 KB	Microsoft Excel Wor...	7/28/2003 4:08 PM
JC4E 4 bar transition 135cc 062603.xls	C:\Documents and Settings\ervi...	5,564 KB	Microsoft Excel Wor...	7/29/2003 8:32 AM
FEV power consumption estimate for CR app 072403 gasW scaled by pressure.xls	C:\Documents and Settings\ervi...	702 KB	Microsoft Excel Wor...	7/29/2003 2:23 PM
203-0815 patent application ervin edits.doc	C:\Documents and Settings\ervi...	53 KB	Microsoft Word Doc...	7/30/2003 12:28 PM
JC4E 0 bar opening transition from M1 022803.xls	C:\Documents and Settings\ervi...	14,805 KB	Microsoft Excel Wor...	7/30/2003 3:30 PM
JC4E 0 bar closing transition from M2 022803 2.xls	C:\Documents and Settings\ervi...	18,020 KB	Microsoft Excel Wor...	7/30/2003 3:30 PM
gas work 4Krpm all 8 cylinders.xls	C:\Documents and Settings\ervi...	1,878 KB	Microsoft Excel Wor...	7/31/2003 9:31 AM
free oscillation 070902.xls	C:\Documents and Settings\ervi...	17,918 KB	Microsoft Excel Wor...	7/31/2003 9:32 AM
FEV 0 bar transition from M1 to M2 071603.xls	C:\Documents and Settings\ervi...	10,745 KB	Microsoft Excel Wor...	7/31/2003 9:32 AM
FEV 0 bar transition from M2 to M1 071603.xls	C:\Documents and Settings\ervi...	11,096 KB	Microsoft Excel Wor...	7/31/2003 9:32 AM
Impact of Line Losses on EVA Power Consumption.doc	C:\Documents and Settings\ervi...	36 KB	Microsoft Word Doc...	7/31/2003 11:10 AM
203-0815 patent application edited.doc	C:\Documents and Settings\ervi...	54 KB	Microsoft Word Doc...	7/31/2003 1:11 PM
203-0185 base lever patent application.doc	C:\Documents and Settings\ervi...	59 KB	Microsoft Word Doc...	7/31/2003 1:18 PM
FGTI-080PUS-scanned figures 1-5.pdf	C:\Documents and Settings\ervi...	257 KB	Adobe Acrobat 7.0 ...	7/31/2003 1:18 PM
lash and center position calculation & tolerancing.xls	C:\Documents and Settings\ervi...	18 KB	Microsoft Excel Wor...	7/31/2003 1:21 PM
bias energy calculator spring force with lash and center position for all actuators...	C:\Documents and Settings\ervi...	1,276 KB	Microsoft Excel Wor...	8/4/2003 10:31 AM
center position measurement 070102.xls	C:\Documents and Settings\ervi...	655 KB	Microsoft Excel Wor...	8/4/2003 10:40 AM
JC4E 0 bar opening transition from M1 022803 correct for current.xls	C:\Documents and Settings\ervi...	13,234 KB	Microsoft Excel Wor...	8/4/2003 11:22 AM
FGTI-080PUS-scanned figures 1-51.pdf	C:\Documents and Settings\ervi...	257 KB	Adobe Acrobat 7.0 ...	8/4/2003 1:49 PM
patent application_twmrev.doc	C:\Documents and Settings\ervi...	67 KB	Microsoft Word Doc...	8/4/2003 1:49 PM
actuator seminar 082003.ppt	C:\Documents and Settings\ervi...	35,104 KB	Microsoft PowerPoi...	8/7/2003 4:26 PM
Effect of Wire size and length on power consumption for CR app 072403 3.xls	C:\Documents and Settings\ervi...	821 KB	Microsoft Excel Wor...	8/7/2003 4:34 PM
free oscillation 070102.xls	C:\Documents and Settings\ervi...	6,928 KB	Microsoft Excel Wor...	8/7/2003 4:34 PM
JC4E 100mJ bias.xls	C:\Documents and Settings\ervi...	656 KB	Microsoft Excel Wor...	8/18/2003 1:49 PM
FEV power consumption compare to dyno with bias 080103 3.xls	C:\Documents and Settings\ervi...	952 KB	Microsoft Excel Wor...	8/19/2003 1:42 PM
Effect of bias on power consumption for CR app 072403 3.xls	C:\Documents and Settings\ervi...	829 KB	Microsoft Excel Wor...	8/19/2003 1:42 PM
bias energy calculator spring force with lash and center position for all actuators...	C:\Documents and Settings\ervi...	2,405 KB	Microsoft Excel Wor...	8/19/2003 1:42 PM
LSP 6 bar transition 135cc 100702 2.xls	C:\Documents and Settings\ervi...	5,399 KB	Microsoft Excel Wor...	8/19/2003 1:42 PM
actuator seminar 082003 2.ppt	C:\Documents and Settings\ervi...	6,504 KB	Microsoft PowerPoi...	8/19/2003 3:30 PM
final_actuator_seminar 082003~3.ppt	C:\Documents and Settings\ervi...	13,904 KB	Microsoft PowerPoi...	8/19/2003 3:37 PM
power consumption transition summary for shahram.xls	C:\Documents and Settings\ervi...	5,504 KB	Microsoft Excel Wor...	8/21/2003 9:59 AM
IVCcurrents from thomas for 800mJ gas work.ppt	C:\Documents and Settings\ervi...	111 KB	Microsoft PowerPoi...	8/25/2003 9:16 AM
LSP pull in currents for shahram.doc	C:\Documents and Settings\ervi...	37 KB	Microsoft Word Doc...	8/25/2003 11:12 AM
min pullin current 070902.xls	C:\Documents and Settings\ervi...	5,688 KB	Microsoft Excel Wor...	8/25/2003 11:15 AM
tech tradeoffs for EVA M=3.5 review with mvh modifications.ppt	C:\Documents and Settings\ervi...	535 KB	Microsoft PowerPoi...	8/25/2003 3:38 PM
pttr082703.ppt	C:\Documents and Settings\ervi...	3,538 KB	Microsoft PowerPoi...	8/26/2003 10:15 AM
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gas work for Neal Berner 082603.ppt	C:\Documents and Settings\ervi...	4,172 KB	Microsoft PowerPoi...	8/26/2003 2:52 PM
gas work for EVA 27mm V4 AI4E.xls	C:\Documents and Settings\ervi...	2,972 KB	Microsoft Excel Wor...	8/28/2003 3:59 PM
gas work for EVA 27mm V4 DIDE.xls	C:\Documents and Settings\ervi...	2,972 KB	Microsoft Excel Wor...	8/28/2003 3:59 PM
FEV power consumption minmap projection 082803.xls	C:\Documents and Settings\ervi...	849 KB	Microsoft Excel Wor...	8/28/2003 4:25 PM
FEV power consumption minmap projection 082803 V8dide.xls	C:\Documents and Settings\ervi...	1,082 KB	Microsoft Excel Wor...	8/29/2003 8:07 AM
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FEV power consumption minmap projection 082803 V8aiae.xls	C:\Documents and Settings\ervi...	1,075 KB	Microsoft Excel Wor...	8/29/2003 8:38 AM
FEV power consumption minmap projection 082803 V4dide.xls	C:\Documents and Settings\ervi...	1,075 KB	Microsoft Excel Wor...	8/29/2003 8:38 AM
JC4E power consumption estimate with bias 080103 3.xls	C:\Documents and Settings\ervi...	355 KB	Microsoft Excel Wor...	8/29/2003 8:57 AM
minmap weightings for various cycles from EVA CVSP FE Analysis.xls	C:\Documents and Settings\ervi...	185 KB	Microsoft Excel Wor...	8/29/2003 10:20 AM
LSP power consumption minmap projection 082803 all.xls	C:\Documents and Settings\ervi...	1,349 KB	Microsoft Excel Wor...	8/29/2003 11:33 AM
JC4E power consumption minmap projection 082803 all.xls	C:\Documents and Settings\ervi...	1,342 KB	Microsoft Excel Wor...	8/29/2003 11:40 AM
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current rating for b3 actuator from TLeiber 090903.ppt	C:\Documents and Settings\ervi...	115 KB	Microsoft PowerPoi...	9/9/2003 2:57 PM
method to generate minmap analysis.ppt	C:\Documents and Settings\ervi...	4,981 KB	Microsoft PowerPoi...	9/9/2003 4:23 PM

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Name	In Folder	Size	Type	Date Modified
wire temp change as a function of current.doc	C:\Documents and Settings\jervi...	50 KB	Microsoft Word Doc...	9/10/2003 9:26 AM
JCAE 6 bar transition 135cc 062603.xls	C:\Documents and Settings\jervi...	6,140 KB	Microsoft Excel Wor...	9/11/2003 11:31 AM
JCAE free osc transition 0 2 4 6 bar 062503 force based 3.xls	C:\Documents and Settings\jervi...	15,241 KB	Microsoft Excel Wor...	9/11/2003 11:32 AM
Actuator and PE DER 022-03.ppt	C:\Documents and Settings\jervi...	10,041 KB	Microsoft PowerPo...	9/12/2003 10:21 AM
LSP 6000rpm WOT rms current estimate for B3 actuator.xls	C:\Documents and Settings\jervi...	18 KB	Microsoft Excel Wor...	9/12/2003 10:47 AM
Dspace current settings for FEV Mini map runs from piper 090903.xls	C:\Documents and Settings\jervi...	26 KB	Microsoft Excel Wor...	9/12/2003 10:57 AM
power consumption transition summary for shahram min file.xls	C:\Documents and Settings\jervi...	428 KB	Microsoft Excel Wor...	9/12/2003 10:57 AM
cam based valvetrain friction projection using fev data and gas work 090803.xls	C:\Documents and Settings\jervi...	258 KB	Microsoft Excel Wor...	9/12/2003 10:57 AM
cam based gas work map of speed and load corrected avg.xls	C:\Documents and Settings\jervi...	6,278 KB	Microsoft Excel Wor...	9/12/2003 11:01 AM
B1_0bar	C:\Documents and Settings\jervi...	17 KB	Microsoft Office Acc...	9/15/2003 8:27 AM
B3_4bar1	C:\Documents and Settings\jervi...	17 KB	Microsoft Office Acc...	9/15/2003 8:27 AM
B3_4bar2	C:\Documents and Settings\jervi...	17 KB	Microsoft Office Acc...	9/15/2003 8:27 AM
B3_4bar3	C:\Documents and Settings\jervi...	17 KB	Microsoft Office Acc...	9/15/2003 8:27 AM
current traces for b3 actuator at 6000rpm from Thomas 091503.xls	C:\Documents and Settings\jervi...	381 KB	Microsoft Excel Wor...	9/15/2003 9:50 AM
EP0970299(B1).pdf	C:\Documents and Settings\jervi...	593 KB	Adobe Acrobat 7.0 ...	9/16/2003 8:19 AM
EP0970295(B1).pdf	C:\Documents and Settings\jervi...	847 KB	Adobe Acrobat 7.0 ...	9/16/2003 8:20 AM
US6516758(B1).pdf	C:\Documents and Settings\jervi...	918 KB	Adobe Acrobat 7.0 ...	9/16/2003 8:21 AM
Andys_EVA Thesis 1994.pdf	C:\Documents and Settings\jervi...	454 KB	Adobe Acrobat 7.0 ...	9/16/2003 8:24 AM
EVA control paper 2001.pdf	C:\Documents and Settings\jervi...	522 KB	Adobe Acrobat 7.0 ...	9/16/2003 8:26 AM
US6262498(B1).pdf	C:\Documents and Settings\jervi...	569 KB	Adobe Acrobat 7.0 ...	9/16/2003 8:56 AM
gas work idle wimmp wot 1.2 to 4.5Krpm corrected avg.xls	C:\Documents and Settings\jervi...	7,827 KB	Microsoft Excel Wor...	9/17/2003 10:54 AM
FEV power consumption minmap projection 082803 all 2.xls	C:\Documents and Settings\jervi...	1,403 KB	Microsoft Excel Wor...	9/17/2003 10:54 AM
FW B1 actuator.msg	C:\Documents and Settings\jervi...	25 KB	Outlook Item	9/18/2003 3:02 PM
half camless power projections for PS4 091703.ppt	C:\Documents and Settings\jervi...	1,659 KB	Microsoft PowerPo...	9/18/2003 4:23 PM
PS4_Ford Meeting #4 -- 091803.ppt	C:\Documents and Settings\jervi...	1,130 KB	Microsoft PowerPo...	9/18/2003 4:28 PM
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Peugot PS4 response to Lever vs Direct visio_EVE_03_09_19.pdf	C:\Documents and Settings\jervi...	181 KB	Adobe Acrobat 7.0 ...	9/22/2003 8:49 AM
FEV JC4E LSP gas work conversion efficiency comparison 072403.xls	C:\Documents and Settings\jervi...	798 KB	Microsoft Excel Wor...	9/22/2003 11:52 AM
RE Operating the EVA @ 14V.msg	C:\Documents and Settings\jervi...	50 KB	Outlook Item	9/22/2003 4:25 PM
RE Intake only EVA power requirements.msg	C:\Documents and Settings\jervi...	67 KB	Outlook Item	9/24/2003 8:27 AM
pptD5.tmp	C:\Documents and Settings\jervi...	4,080 KB	TMP File	9/24/2003 1:37 PM
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Calcs for PS4 Puegot comparison JC4E vs LSP.xls	C:\Documents and Settings\jervi...	147 KB	Microsoft Excel Wor...	9/29/2003 8:26 AM
LSP power consumption wot projection 082803 full camless solid armature3.xls	C:\Documents and Settings\jervi...	366 KB	Microsoft Excel Wor...	9/29/2003 10:29 AM
Dspace parameter sets for Mini map from piper.xls	C:\Documents and Settings\jervi...	14 KB	Microsoft Excel Wor...	9/29/2003 1:39 PM
H-bridge.pdf	C:\Documents and Settings\jervi...	338 KB	Adobe Acrobat 7.0 ...	9/29/2003 1:42 PM
BYVB32_200.pdf	C:\Documents and Settings\jervi...	48 KB	Adobe Acrobat 7.0 ...	9/29/2003 1:42 PM
SPP80N08S2L-07.pdf	C:\Documents and Settings\jervi...	509 KB	Adobe Acrobat 7.0 ...	9/29/2003 1:42 PM
PS4_Ford Meeting #5 -- 092503.ppt	C:\Documents and Settings\jervi...	3,240 KB	Microsoft PowerPo...	10/1/2003 4:31 PM
PS4_Ford Meeting #6 -- 100203.ppt	C:\Documents and Settings\jervi...	87 KB	Microsoft PowerPo...	10/3/2003 8:05 AM
LSP power consumption calc split of I2R with VCU projection 082803 all.xls	C:\Documents and Settings\jervi...	1,495 KB	Microsoft Excel Wor...	10/3/2003 9:55 AM
JC4E power consumption calc split of I2R with VCU projection 082803 all.xls	C:\Documents and Settings\jervi...	1,717 KB	Microsoft Excel Wor...	10/3/2003 9:55 AM
fullevers intake only megli FE calcs.xls	C:\Documents and Settings\jervi...	322 KB	Microsoft Excel Wor...	10/3/2003 11:38 AM
Actuator CR Documentation slides 100503.ppt	C:\Documents and Settings\jervi...	1,185 KB	Microsoft PowerPo...	10/6/2003 8:14 AM
Brader Thesis piezohydraulic camless 2001.pdf	C:\Documents and Settings\jervi...	659 KB	Adobe Acrobat 7.0 ...	10/6/2003 8:22 AM
Presentation1.ppt	C:\Documents and Settings\jervi...	197 KB	Microsoft PowerPo...	10/6/2003 8:28 AM
PS4_Ford Meeting #7.ppt	C:\Documents and Settings\jervi...	120 KB	Microsoft PowerPo...	10/7/2003 4:54 PM
Joint PS4_Ford Conclusions version 10-8 WB2.ppt	C:\Documents and Settings\jervi...	185 KB	Microsoft PowerPo...	10/8/2003 1:57 PM
FW PS4 and Ford joint conclusions.msg	C:\Documents and Settings\jervi...	22 KB	Outlook Item	10/8/2003 2:05 PM
RE Tsao actuator is likely conventional EM or hydraulic - we'll find out on Friday....	C:\Documents and Settings\jervi...	25 KB	Outlook Item	10/8/2003 2:09 PM

start

2 Window...

E10

Ervin iEVA program activity from 10/8-10/21/03

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System Folder

Name	In Folder	Size	Type	Date Modified
RE Ref RE Slides next meeting.msg	C:\Documents and Settings\ervi...	33 KB	Outlook Item	10/8/2003 2:12 PM
Camless Air Hybrid Engine.msg	C:\Documents and Settings\ervi...	28 KB	Outlook Item	10/8/2003 2:13 PM
VCU fixed losses.msg	C:\Documents and Settings\ervi...	21 KB	Outlook Item	10/8/2003 2:17 PM
RE Operating the EVA & 14...msg	C:\Documents and Settings\ervi...	51 KB	Outlook Item	10/8/2003 2:18 PM
FW 42v.msg	C:\Documents and Settings\ervi...	26 KB	Outlook Item	10/8/2003 2:19 PM
RE Camless Engine Pneumatic Hybrid Project .msg	C:\Documents and Settings\ervi...	54 KB	Outlook Item	10/8/2003 2:27 PM
RE Current rating.msg	C:\Documents and Settings\ervi...	44 KB	Outlook Item	10/8/2003 2:27 PM
RE internal resistance for FEV 42v VCU in S RL dynamometer.msg	C:\Documents and Settings\ervi...	29 KB	Outlook Item	10/8/2003 2:43 PM
VCU photos.msg	C:\Documents and Settings\ervi...	20 KB	Outlook Item	10/8/2003 2:43 PM
RE gas work power calcs.msg	C:\Documents and Settings\ervi...	24 KB	Outlook Item	10/8/2003 3:58 PM
RE power stage.msg	C:\Documents and Settings\ervi...	33 KB	Outlook Item	10/8/2003 4:05 PM
Book1.xls	C:\Documents and Settings\ervi...	479 KB	Microsoft Excel Wor...	10/9/2003 5:19 PM
JC4E power consumption minmap projection 082803 all 2.xls	C:\Documents and Settings\ervi...	1,629 KB	Microsoft Excel Wor...	10/13/2003 9:56 AM
FEV dyno Projected improvement from reducing contact R wire L and inc bias 10...	C:\Documents and Settings\ervi...	24 KB	Microsoft Excel Wor...	10/13/2003 10:36 AM
LSP power consumption full map projection 082803 all.xls	C:\Documents and Settings\ervi...	1,486 KB	Microsoft Excel Wor...	10/13/2003 2:06 PM
LSP power consumption full map projection 082803 IR level all.xls	C:\Documents and Settings\ervi...	1,716 KB	Microsoft Excel Wor...	10/13/2003 2:21 PM
FMEP Delta FEV vs. LSP from approva for kumar 100503.xls	C:\Documents and Settings\ervi...	26 KB	Microsoft Excel Wor...	10/13/2003 2:21 PM
LSP power consumption estimate for CR app 072403 3.xls	C:\Documents and Settings\ervi...	707 KB	Microsoft Excel Wor...	10/13/2003 2:21 PM
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Joint PSA_Ford Conclusions version 10-14 WB.ppt	C:\Documents and Settings\ervi...	196 KB	Microsoft PowerPoi...	10/14/2003 4:24 PM
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FE at 650 rpm 0.65 bar.xls	C:\Documents and Settings\ervi...	1,370 KB	Microsoft Excel Wor...	10/16/2003 9:38 AM
FE at 1250 rpm 4 bar.xls	C:\Documents and Settings\ervi...	1,339 KB	Microsoft Excel Wor...	10/16/2003 9:38 AM
FE at 1250 rpm 2 bar.xls	C:\Documents and Settings\ervi...	1,338 KB	Microsoft Excel Wor...	10/16/2003 9:39 AM
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FE at 1750 rpm 4 bar.xls	C:\Documents and Settings\ervi...	1,176 KB	Microsoft Excel Wor...	10/16/2003 9:51 AM
FE at 1550 rpm 1 bar (base IMEP adj).xls	C:\Documents and Settings\ervi...	1,439 KB	Microsoft Excel Wor...	10/16/2003 9:51 AM
FE at 1250 rpm 4 bar (base IMEP adj).xls	C:\Documents and Settings\ervi...	1,600 KB	Microsoft Excel Wor...	10/16/2003 9:51 AM
FE at 650 rpm 0.65 bar (base IMEP adj).xls	C:\Documents and Settings\ervi...	1,670 KB	Microsoft Excel Wor...	10/16/2003 9:51 AM
FE at 1250 rpm 2 bar (base IMEP adj).xls	C:\Documents and Settings\ervi...	1,622 KB	Microsoft Excel Wor...	10/16/2003 9:51 AM
FE at 1500 rpm 5.5 bar.xls	C:\Documents and Settings\ervi...	1,077 KB	Microsoft Excel Wor...	10/16/2003 9:52 AM
FE at 1500 rpm 2.62 bar.xls	C:\Documents and Settings\ervi...	1,965 KB	Microsoft Excel Wor...	10/16/2003 9:53 AM
gas work idle wwmp wot 1.2 to 4.5Krpm.xls	C:\Documents and Settings\ervi...	6,719 KB	Microsoft Excel Wor...	10/16/2003 3:05 PM
gas work idle wwmp wot 1.2 to 4.5Krpm 2.xls	C:\Documents and Settings\ervi...	6,877 KB	Microsoft Excel Wor...	10/16/2003 4:23 PM
gas work for EVA 27mm V8 DIDE.xls	C:\Documents and Settings\ervi...	4,480 KB	Microsoft Excel Wor...	10/17/2003 12:12 PM
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lsp wot power consumption 101703.xls	C:\Documents and Settings\ervi...	1,164 KB	Microsoft Excel Wor...	10/20/2003 8:50 AM
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Calcs for PSA Puegot comparison JC4E vs LSP.xls	C:\Documents and Settings\ervi...	305 KB	Microsoft Excel Wor...	10/20/2003 8:50 AM
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LSP power consumption estimate with bias 080103 3.xls	C:\Documents and Settings\ervi...	355 KB	Microsoft Excel Wor...	10/20/2003 8:50 AM
gas work idle wwmp wot 1.2 to 4.5Krpm 3.xls	C:\Documents and Settings\ervi...	6,768 KB	Microsoft Excel Wor...	10/20/2003 8:50 AM
gas work idle wwmp wot 1.5K 4K 6K.xls	C:\Documents and Settings\ervi...	10,410 KB	Microsoft Excel Wor...	10/20/2003 8:51 AM
Actuator CR Documentation Ervin revisions.ppt	C:\Documents and Settings\ervi...	417 KB	Microsoft PowerPoi...	10/20/2003 10:55 AM
Backup slide for Fuel Economy for Apporva CR presentation.ppt	C:\Documents and Settings\ervi...	99 KB	Microsoft PowerPoi...	10/20/2003 4:31 PM
FEV JC4E LSP power consumption minmap projection 082803 CR Level & min io ...	C:\Documents and Settings\ervi...	211 KB	Microsoft Excel Wor...	10/21/2003 9:02 AM
LSP power consumption minmap projection 082803 all 2.xls	C:\Documents and Settings\ervi...	1,653 KB	Microsoft Excel Wor...	10/21/2003 9:03 AM
FEV JC4E LSP power consumption minmap projection 082803 all2.xls	C:\Documents and Settings\ervi...	359 KB	Microsoft Excel Wor...	10/21/2003 9:06 AM
FEV power consumption minmap projection 082803 all for IR 3.xls	C:\Documents and Settings\ervi...	1,635 KB	Microsoft Excel Wor...	10/21/2003 9:08 AM
FEV JC4E LSP power consumption comparison for CR app 072403 3.xls	C:\Documents and Settings\ervi...	823 KB	Microsoft Excel Wor...	10/21/2003 9:23 AM
FMEP breakdown of FEV CR vs LSP IR vs base cam.xls	C:\Documents and Settings\ervi...	57 KB	Microsoft Excel Wor...	10/21/2003 1:46 PM

start

E11

Ervin iEVA program activity from 10/21-11/26/03

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System Folder

Name	In Folder	Size	Type	Date Modified
FEV vs LSP walk for FE for Megiren.xls	C:\Documents and Settings\jervi...	1,083 KB	Microsoft Excel Wor...	10/21/2003 1:46 PM
gas work idle wump wot 1.5K 4K 6K 2.xls	C:\Documents and Settings\jervi...	9,125 KB	Microsoft Excel Wor...	10/21/2003 2:27 PM
FEV WOT power consumption estimate on Dyno 100803.xls	C:\Documents and Settings\jervi...	1,183 KB	Microsoft Excel Wor...	10/23/2003 10:33 AM
gas work idle wump wot 1.5K 4K 6K 3.xls	C:\Documents and Settings\jervi...	30,385 KB	Microsoft Excel Wor...	10/23/2003 1:25 PM
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E12

Ervin iEVA program activity from 11/24-1/20/04

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- My Computer
- My Documents
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Details

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System Folder

Name	In Folder	Size	Type	Date Modified
supplier selection for full and intake only EVA 112403.ppt	C:\Documents and Settings\jervi...	181 KB	Microsoft PowerPoi...	11/24/2003 5:14 PM
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